

# SAMSUNG

# SV-200B

MODEL

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## SERVICE MANUAL

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SAMSUNG SV-A20 IK

1

General Information

Also Covers  
SV-A30 IK  
SV-A40 IK  
SV-A80 IK  
SV-200 B  
SV-203 B  
SV-205 B  
SV-405 B

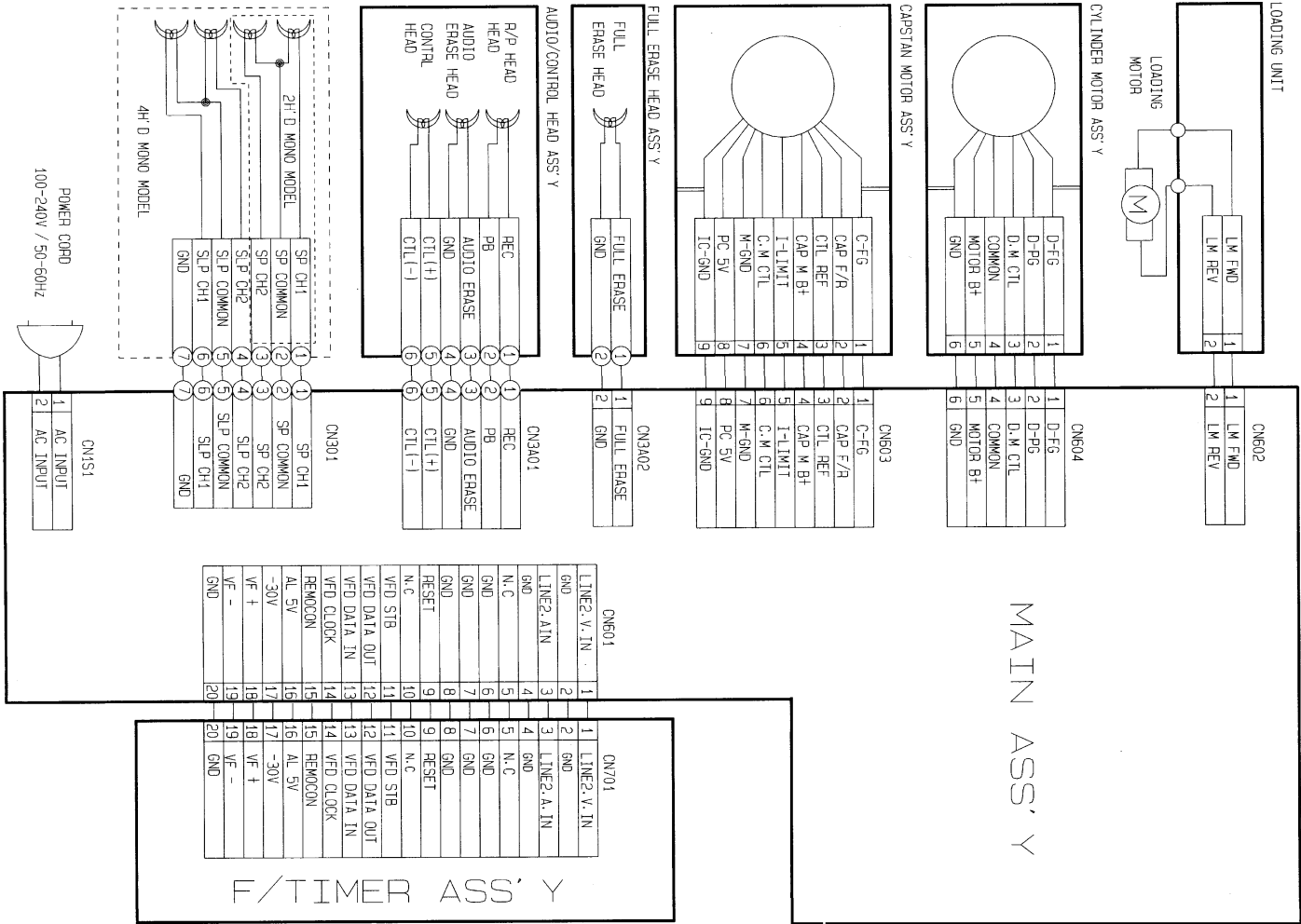
Matrix

| Item                          | See Model      | Book |
|-------------------------------|----------------|------|
| Connecting X-5 Jig .....      | SV-A130 IK     | 6    |
| Alignment & Adjustments ..... | SV-A130 IK     | 6    |
| Deck Exploded View .....      | SV-A130 IK     | 6    |
| Deck Parts List .....         | SV-A130 IK     | 6    |
| PDC Diagram .....             | SV-A130 IK     | 6    |
| Remote Handset .....          | SV-A130 IK     | 6    |
| Deck Alignment .....          | DX7 & DX8 Deck | 6    |
| Deck Adjustment .....         | DX7 & DX8 Deck | 6    |

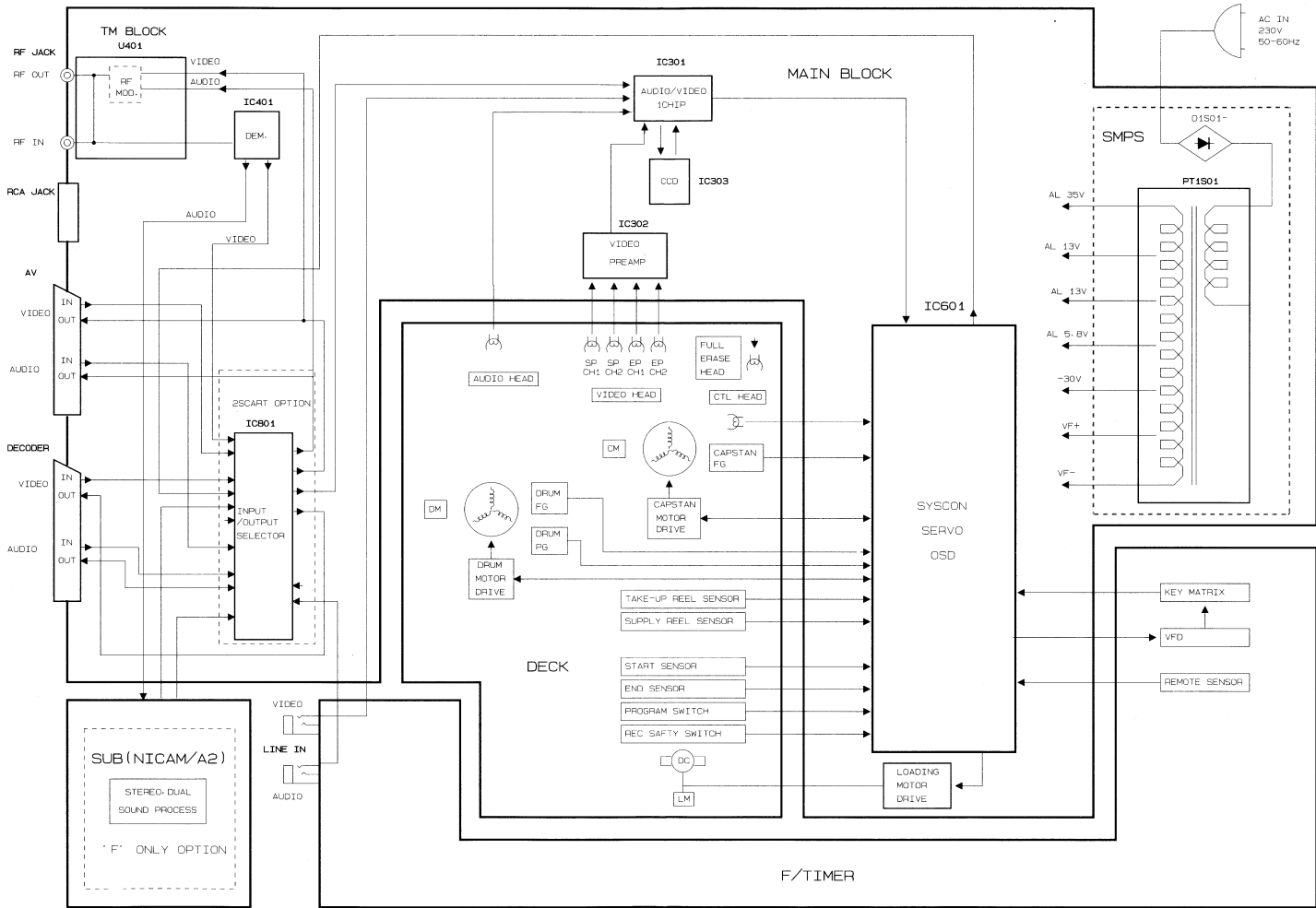
Recommended Safety Parts

| Item   | Part No.    | Description                                               |
|--------|-------------|-----------------------------------------------------------|
| C1S03  | 2305-001021 | C-FILM,MPEF;100NF20%,275V,TP,17.5X7X13.5,                 |
| C1S04  | 2305-001021 | C-FILM,MPEF;100NF20%,275V,TP,17.5X7X13.5,                 |
| C1S05  | 2201-000808 | C-CERAMIC,DISC;2.2NF,100%,400V,Y5P,TP,12X7.5,7            |
| C1S06  | 2201-000934 | C-CERAMIC,DISC;3.3NF,20%,400V,Y5P,TP,18X8, 10             |
| C1S08  | 2401-001957 | C-AL;47.0UF,20%,400V,GP,TP,18X25,7. SME LOCAL             |
| CN1S1  | 3711-000178 | CONNECTOR-HEADER;1WALL,2P,1R,3.96MM,STRAIGHT,SN SME LOCAL |
| D1S01  | 0402-001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR                        |
| D1S02  | 0402-001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR                        |
| D1S03  | 0402-001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR                        |
| D1S04  | 0402-001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR                        |
| F1S01  | A3065-0157  | FUSE;FST 250V 1.6A 20MM SEMKO 3505 C                      |
| IC1S2  | B4161-0030  | PHOTO-COUPLER;P52561-1 ST DIP                             |
| IC1S3  | AC14-12006D | IC;KA431Z,TO-92,TAPING SME LOCAL                          |
| L1S01  | AC29-30050A | FILTER-LINE NOISE;-400UH,-250V,-                          |
| L1S02  | A1151-0042  | COIL-LINE FILTER;BSF-2120Z 25MH 3.2OHM                    |
| L1S05  | AC27-92001  | INDUCTOR;70UH-M RT BF53565R2F,-,-,- SME LOCAL             |
| PT1S01 | AC26-20120C | TRANS-SWITCHING;-100/230V,UL/CSA,EE28*21*11,1             |
| VA1S01 | 1405-000186 | VARISTOR;470V,4500A,17X12MM,TP SME LOCAL                  |
| VA1S02 | 1405-000186 | VARISTOR;470V,4500A,17X12MM,TP SME LOCAL                  |

Wiring Diagram

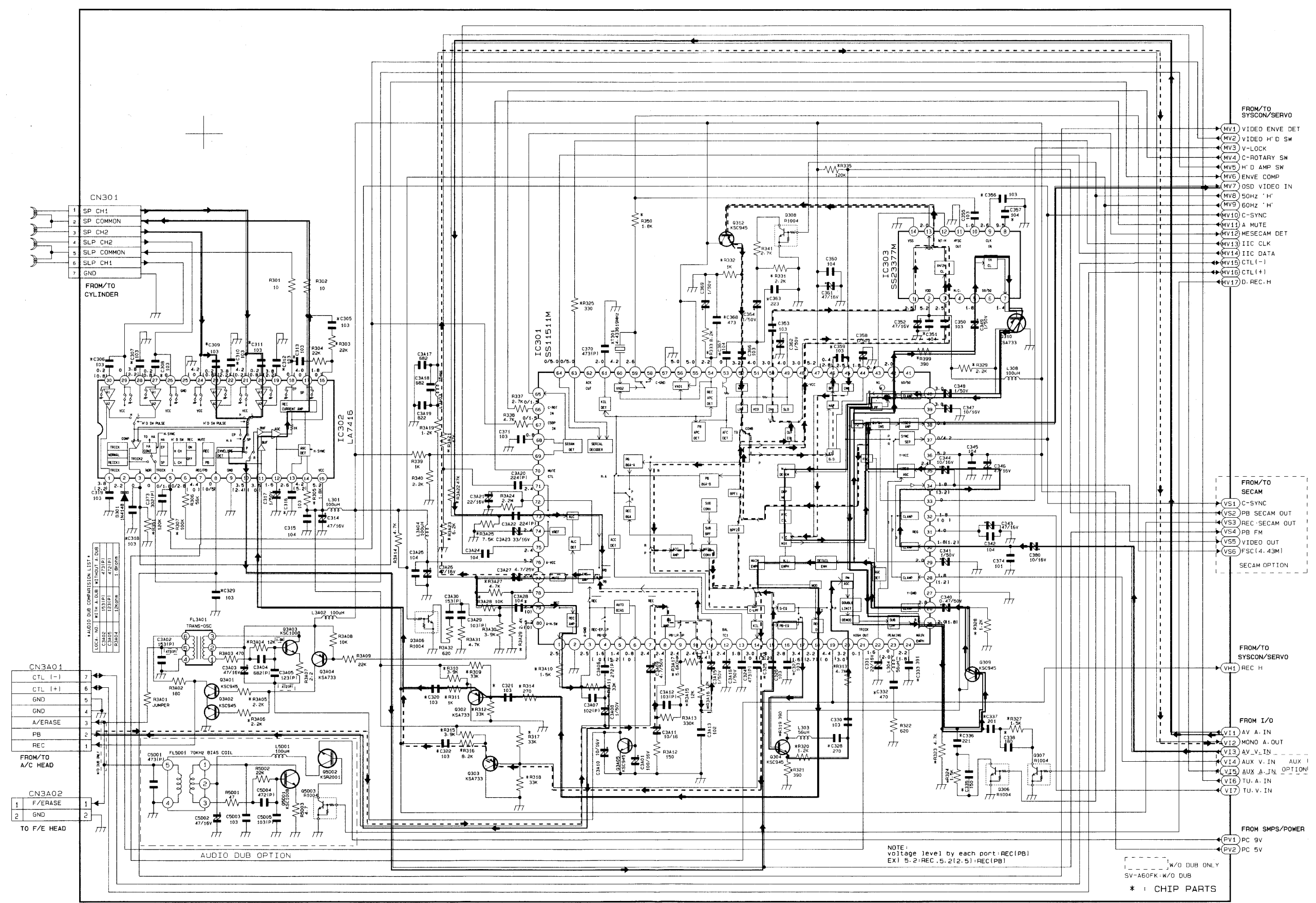


Block Diagram

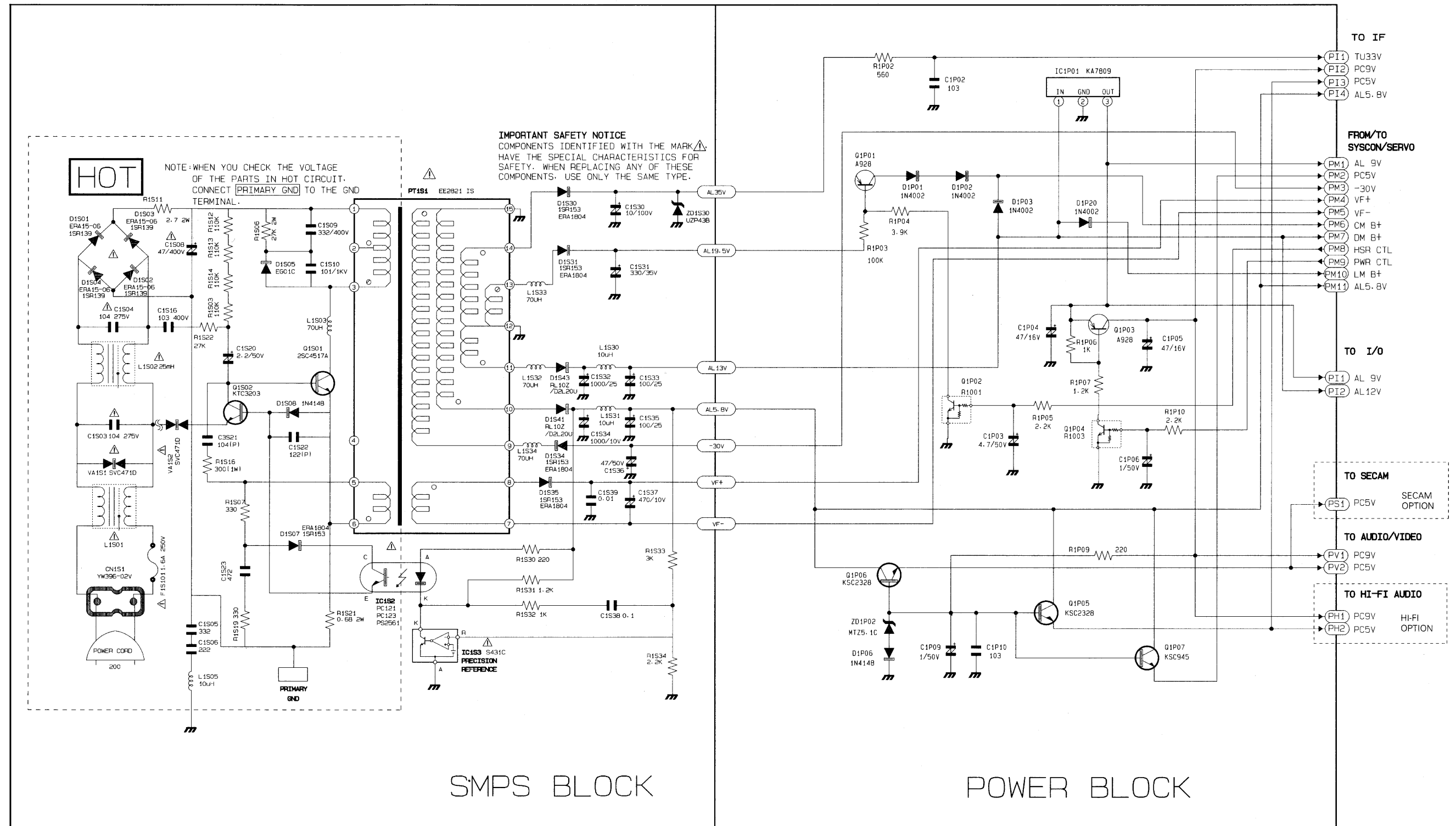




Audio Video Diagram  
(SV-A80, SV-405)

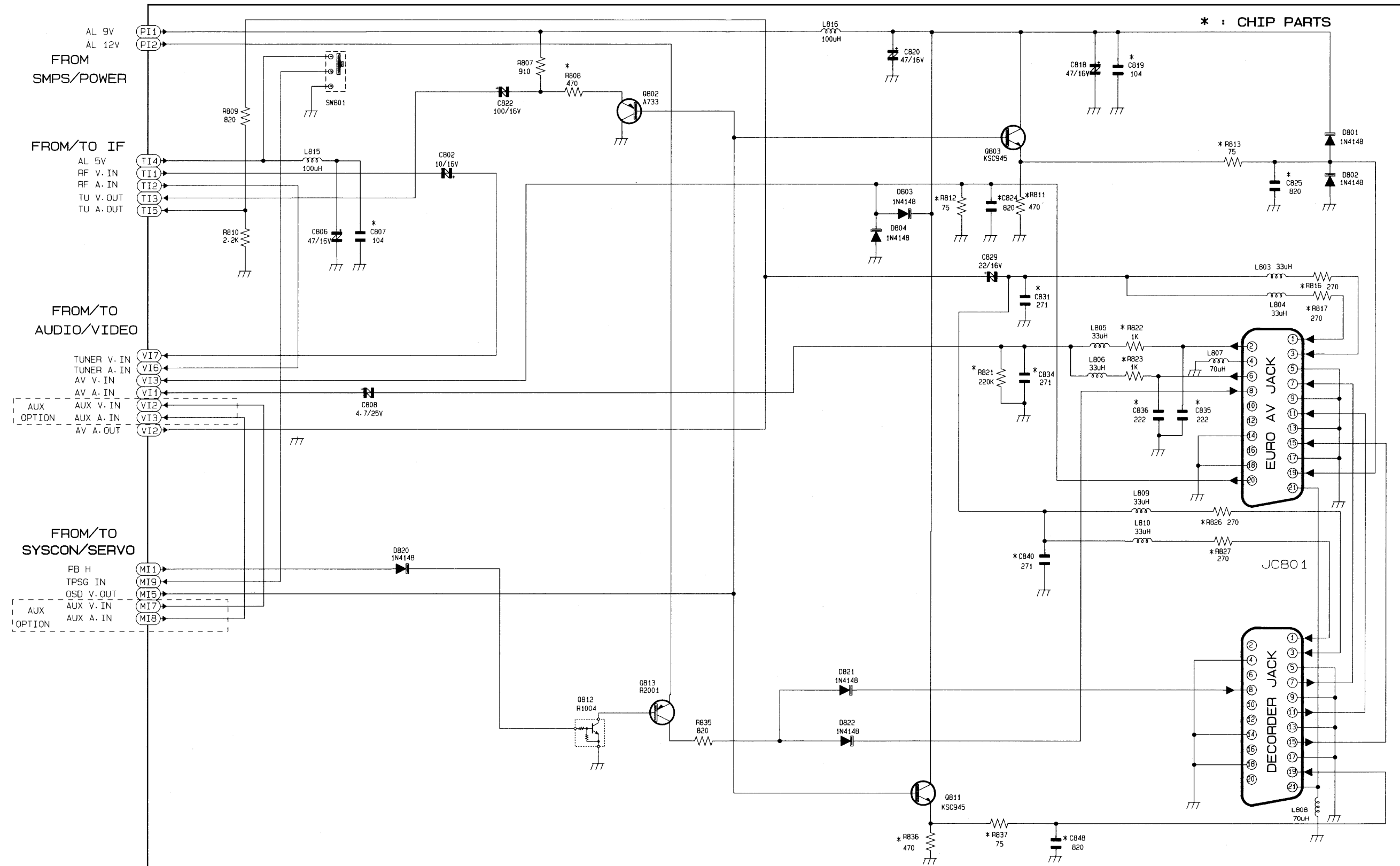


## Power Supply Diagram

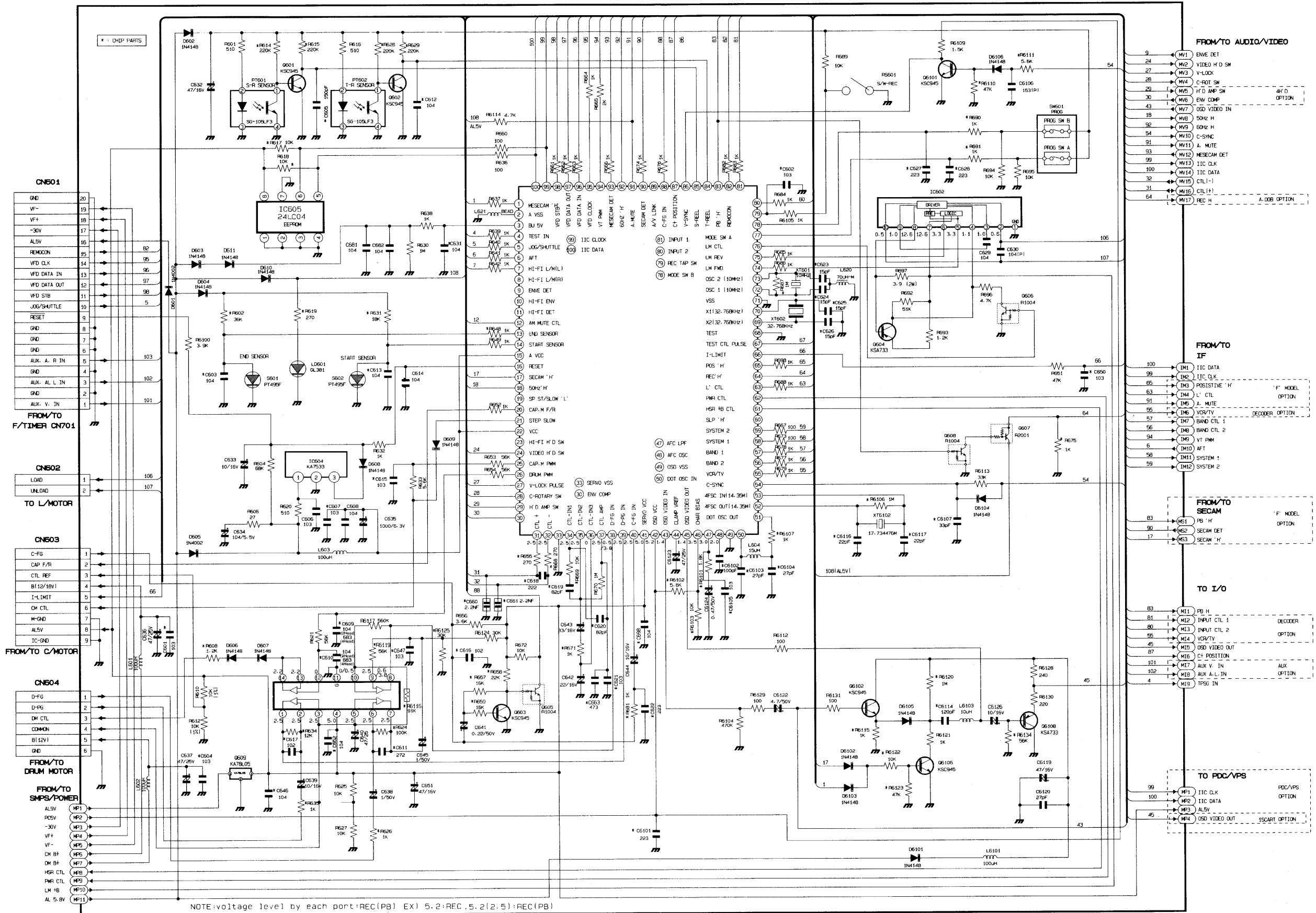




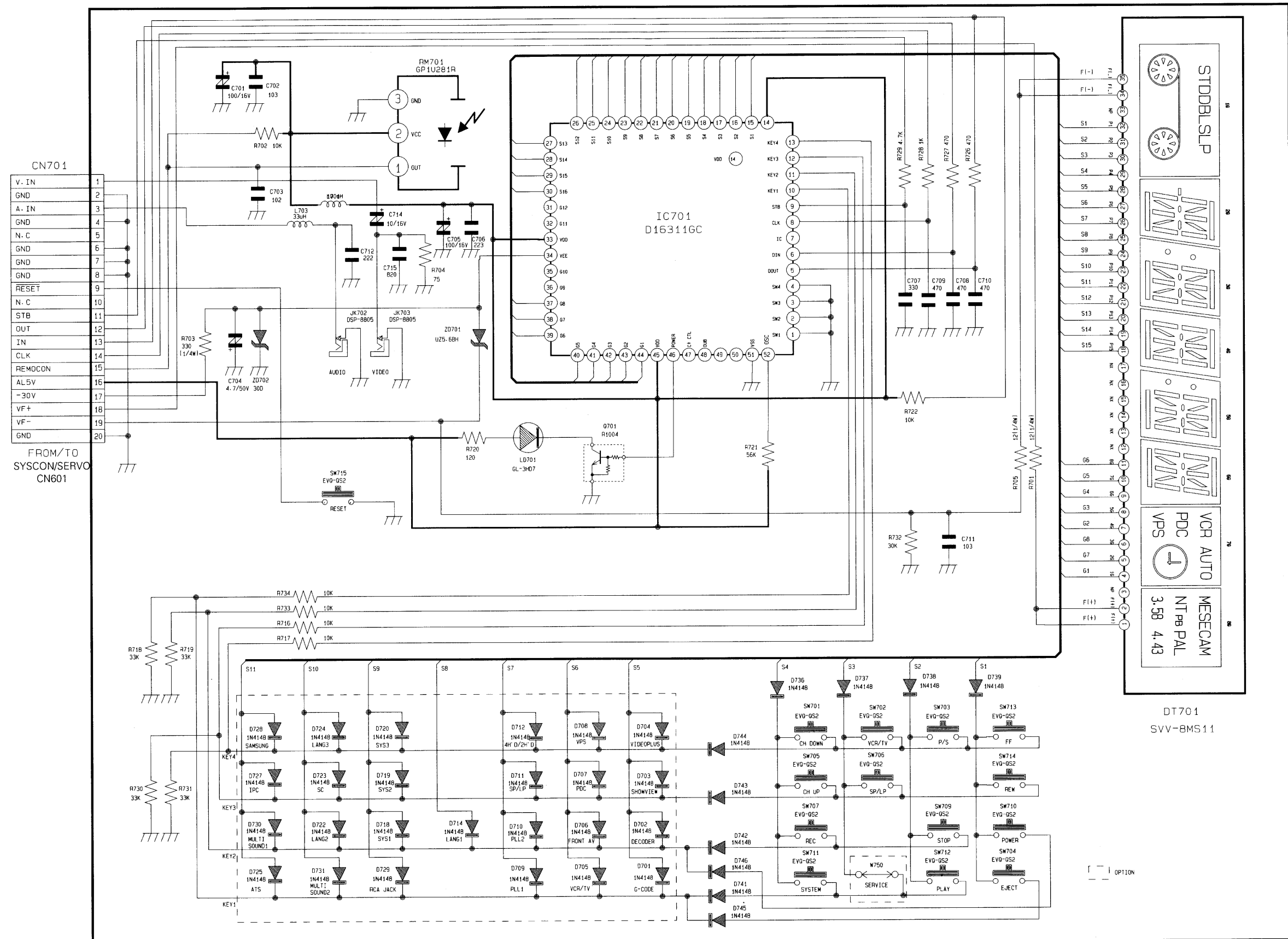
## 2 Scart In/Out Diagram



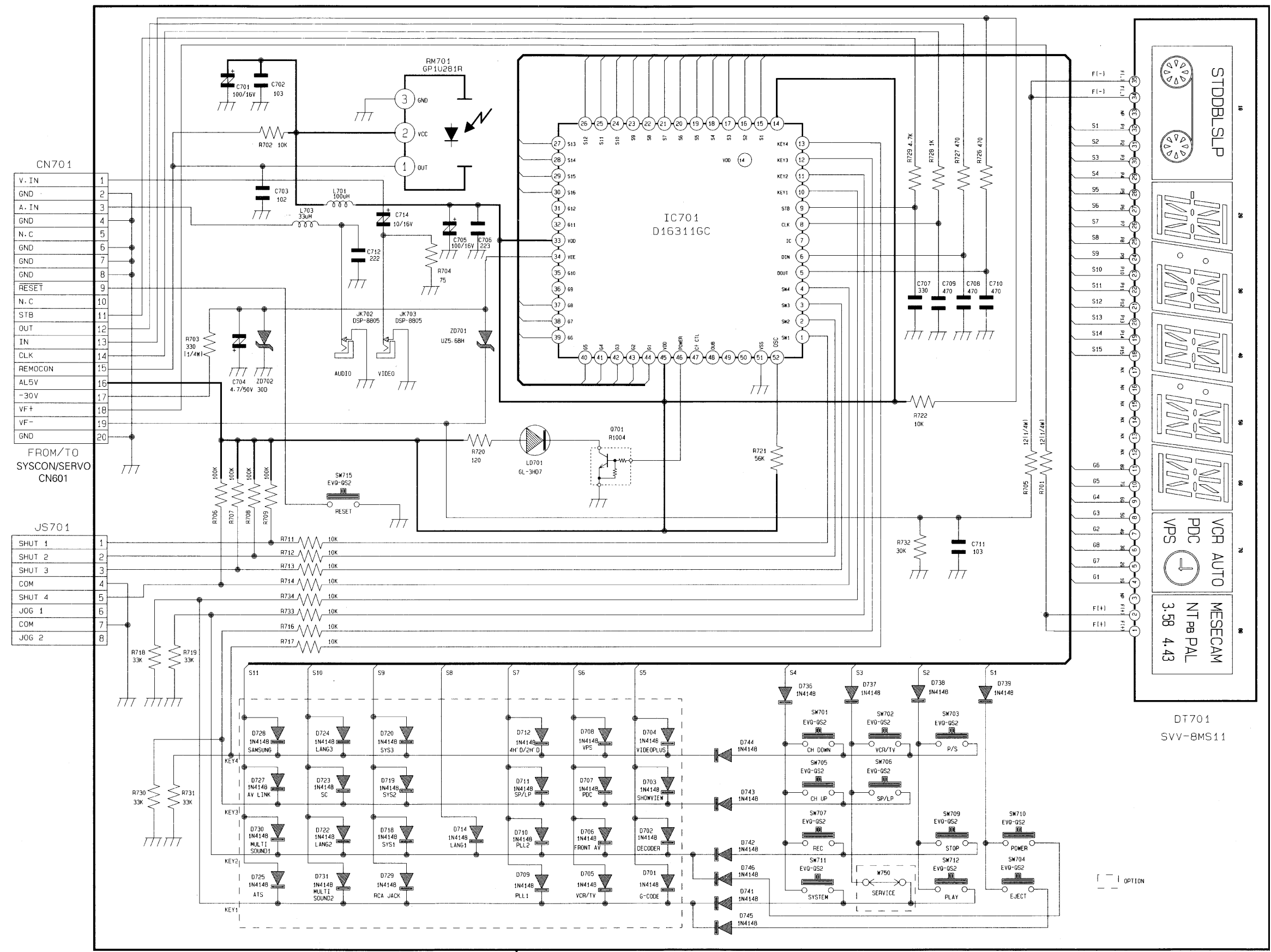
# System Control / Servo Diagram



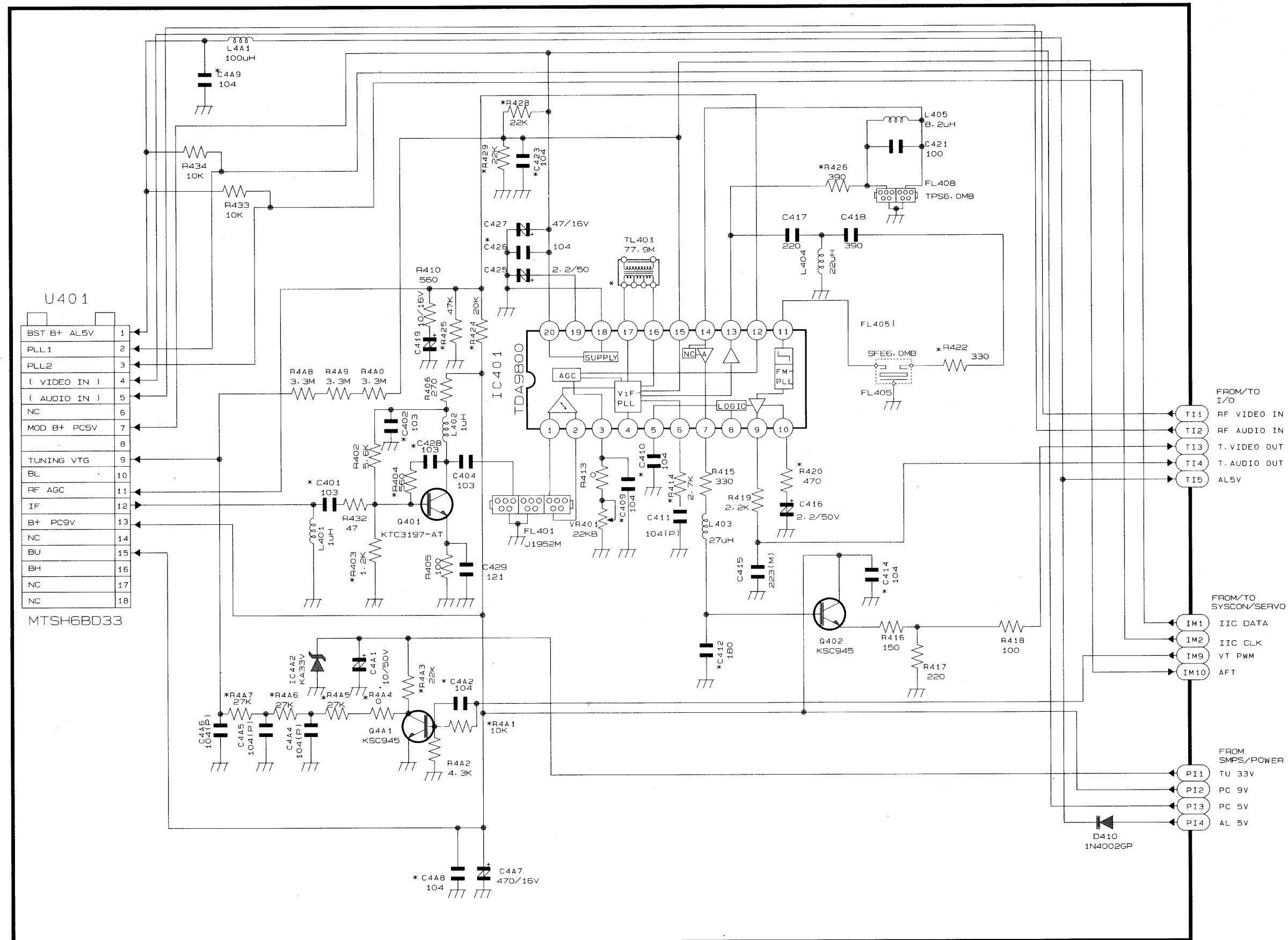
# Timer / Front Panel Diagram (SV-A20, SV-A30, SV-A40, SV-200, SV-203, SV-205)



# Timer / Front Panel Diagram (SV-A80, SV-405)



## Tuner IF Diagram



## 2. Reference Information

### 2-1 Servicing Jigs and Special Tools

#### 2-1-1 Servicing guide

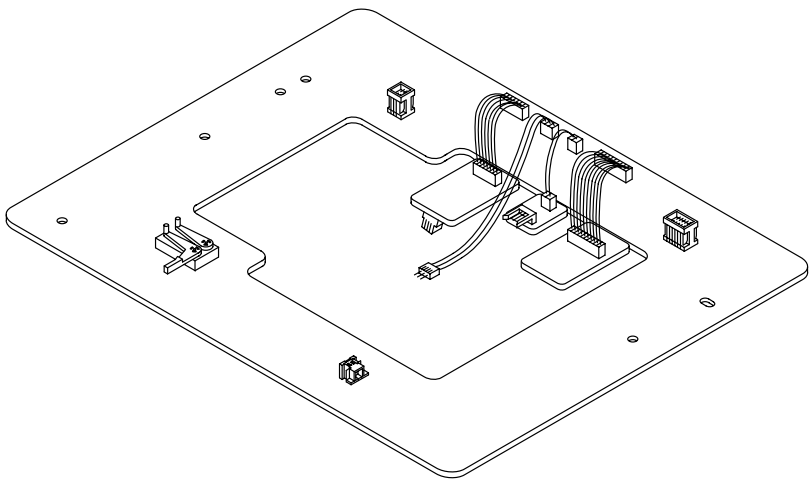
1. For this VCR chassis, the program switch and the sensors (start/end/reel) are located on the main PCB, not on the deck ass'y.
2. As long as the deck ass'y is connected to the main PCB, all repairs are possible.  
Important : In order to repair the main PCB without the deck ass'y connected, the X-5 chassis jig should be used.
3. To emulate the function of the sensors, connect a jumper or solder land (two point) at service option(W750) on the function-timer PCB.
4. The X-5 chassis jig can be used for the following :
  - 1) When repairing or confirming the operation of the deck ass'y.
  - 2) When replacing or repairing the components located under the deck ass'y.
  - 3) When repairing the function PCB.
5. The X-5 chassis jig can not be used for the following :
  - 1) Repairing defects in the video section.
  - 2) Repairing defects in the audio section.
  - 3) If the defect is related to tape speed.

**Note :**

- 1) Repair may not be possible if there is external noise between the deck ass'y and main PCB.
- 2) If tape control signal is not connected to the jig, the VCR must be operated in SP mode.

#### 2-1-2 Servicing Jig

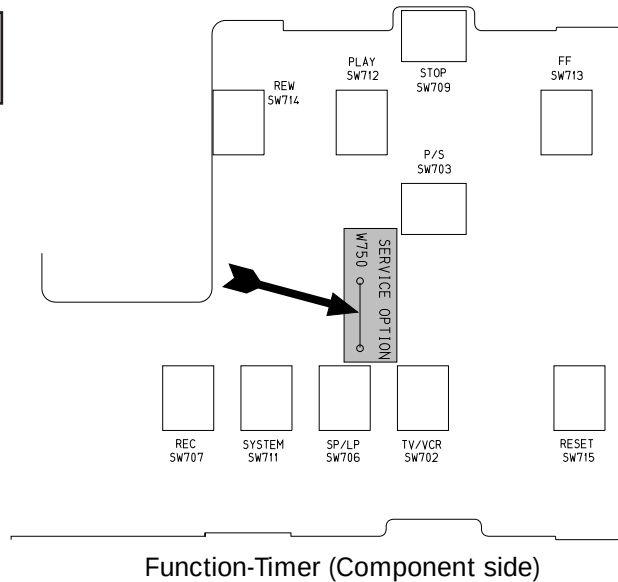
| Jig Item        | Part No.      | Use                                                       |
|-----------------|---------------|-----------------------------------------------------------|
| X-5 Chassis Jig | 68140-500-013 | Connects the deck ass'y to the main PCB connecting cable. |



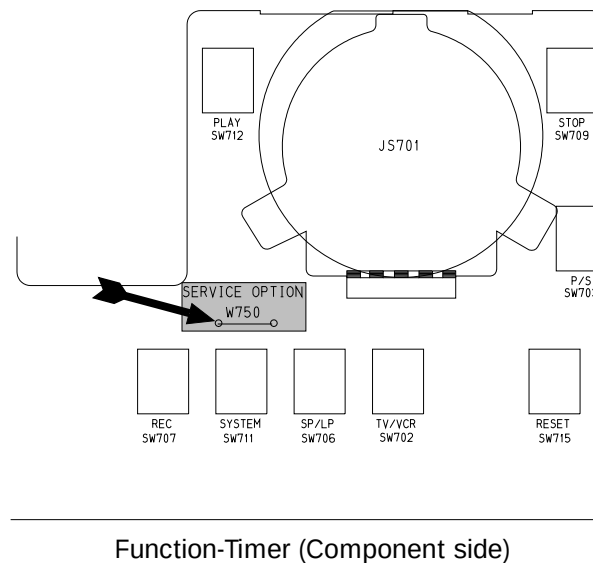
## 2-1-4 How to Connect X-5 chassis jig

1. Unplug the power cord from AC outlet.
2. Remove the deck ass'y from main PCB (See Page 4-5 of service manual).
3. To emulate the function of the sensors, place a jumper or solder land (two point) at service option(W750) on the function-timer PCB. (see diagram below).

**SV-A20GK/A60GK  
SV-200G/400G**



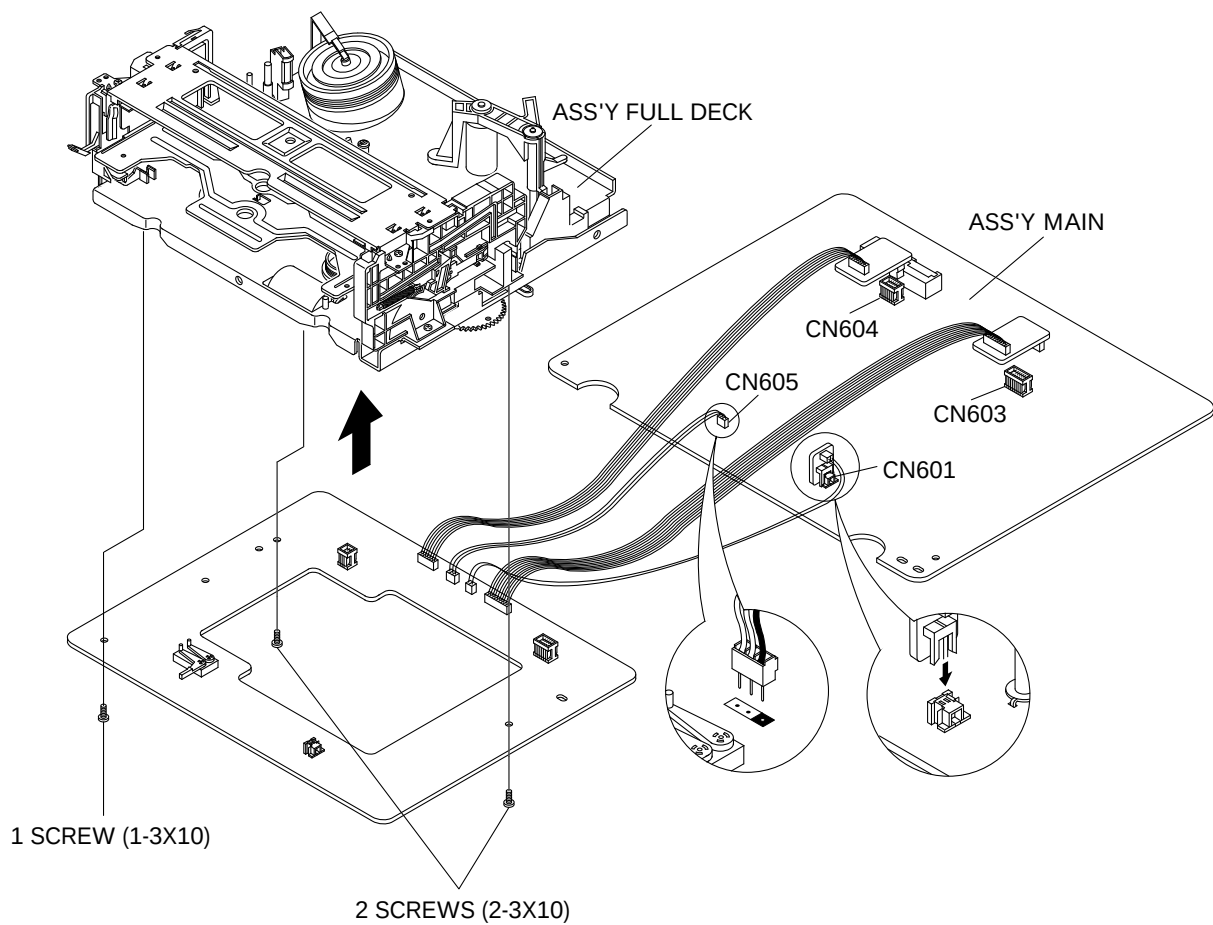
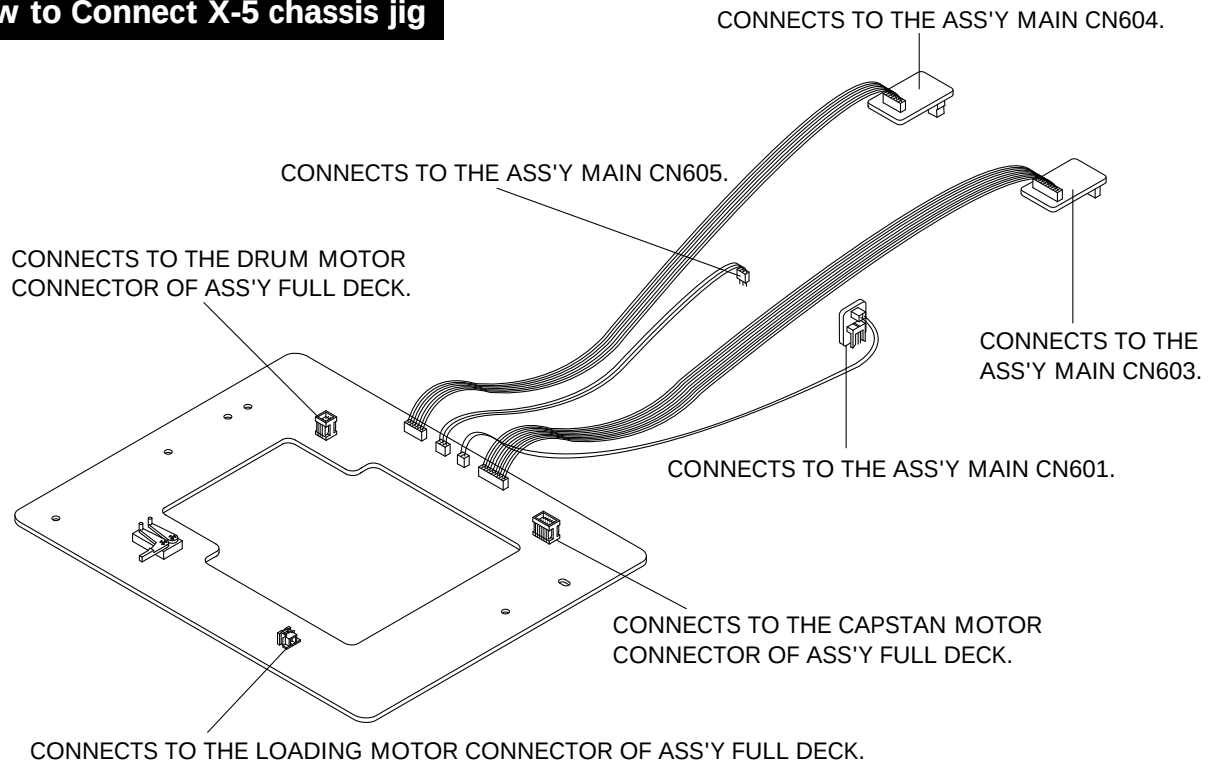
**SV-A40GK/A80GK  
SV-205G/405G**



**Note :** After completing repairs, SW715 on the function PCB in order to reset.

4. Insert wafers of drum motor, capstan motor and loading motor on X-5 chassis jig into each of the connectors of deck ass'y, and then secure with three screws.
5. Solder the 3 leads of the jig cable to "CN605" on the main PCB.
6. Apply power to the function PCB.
7. Insert a test tape into the housing ass'y.
8. Simultaneously touch the start and end sensor LEDs on the PCB, so that the tape loads automatically. After the tape is loaded, all of the function buttons on the function PCB can be used.
9. If the test tape is ejected while the jig is in use, attempt to re-load the tape by simultaneously touching the start and end sensor LEDs. If the tape still does not load, reset the function PCB by pressing SW715.

## How to Connect X-5 chassis jig



MEMO

## 3. Product Specifications and Comparison Chart

### 3-1 Product Specifications

Design and specifications are subject to change without notice.

| Operation                                                                               | Description                                                                                                                                                        |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format                                                                                  | VHS PAL/MESECAM standard                                                                                                                                           |
| Heads                                                                                   | Video : SV-A20G/A40G/200G/205G - 2 rotary heads<br>SV-A40G/A80G/400G/405G - 4 rotary heads<br>Audio/Control : 1 stationary head<br>Erase : 1 full track erase head |
| Receiving channel                                                                       | VHF-I, VHF-III, UHF, Hyperband                                                                                                                                     |
| Television system                                                                       | STANDARD B/G                                                                                                                                                       |
| Luminance                                                                               | FM azimuth recording                                                                                                                                               |
| Colour system                                                                           | PAL/MESECAM : Down converted subcarrier phase shifted direct recording<br>NTSC PB on PAL TV                                                                        |
| Tape speed                                                                              | SP : 23.39 mm/sec, LP : 11.69 mm/sec                                                                                                                               |
| Recording/playback time                                                                 | SP : 3 hours (E-180 Tape), LP : 6 hours (E-180 Tape)                                                                                                               |
| F.F/REW time                                                                            | About 100-190 sec in REW/F.F with E-180                                                                                                                            |
| VIDEO                                                                                   |                                                                                                                                                                    |
| Input<br>Output<br>Signal-to-noise ratio<br>Horizontal resolution                       | 0.5 to 2.0 Vp-p : 75 ohm unbalanced<br>1.0 ± 0.2 Vp-p : 75 ohm unbalanced<br>Better than 43 dB (SP)<br>More than 240 lines (SP)                                    |
| Audio                                                                                   |                                                                                                                                                                    |
| Input<br>Output<br>Wow and flutter (WTD)<br>Signal-to-noise ratio<br>Frequency response | -8 dBm, 47 Kohm unbalanced<br>-8 ± 3 dBm, 1 Kohm unbalanced<br>0.4% max (SP)<br>42 dB min (IHF A filter)<br>100Hz-8KHz                                             |
| Power requirement                                                                       | 230V (AC 50/60 Hz)                                                                                                                                                 |
| Power consumption                                                                       | Approx. 18 watts                                                                                                                                                   |
| Operation temperature                                                                   | 41°F-104°F (5°C-40°C)                                                                                                                                              |
| Operation humidity                                                                      | 10%-75%                                                                                                                                                            |
| Weight                                                                                  | 4.4 Kg (net)                                                                                                                                                       |
| Dimensions (W x H x D)                                                                  | 380 x 90.5 x 310 mm                                                                                                                                                |

3-2 Comparison Chart

| FUNCTION<br>MODEL      | SHUTTLE | AUDIO<br>DUBBING | VPS | SLOW | SHOW<br>VIEW | ATS | JUST<br>REC | FRONT<br>AV | REAR<br>JACK | TAPE<br>SPEED | DLC | REMARK |
|------------------------|---------|------------------|-----|------|--------------|-----|-------------|-------------|--------------|---------------|-----|--------|
| SV-A20GK/SEH (SV-200G) | X       | X                | X   | O    | X            | X   | X           | X           | 1 SCART      | SP            | O   |        |
| SV-A20GK/POL (SV-200G) | X       | X                | X   | O    | X            | X   | X           | X           | 1 SCART      | SP            | O   |        |
| SV-A40GK/SEH (SV-205G) | O       | O                | X   | O    | O            | X   | X           | O           | 1 SCART      | SP            | O   |        |
| SV-A40GK/POL (SV-205G) | O       | O                | X   | O    | O            | X   | X           | O           | 1 SCART      | SP            | O   |        |
| SV-A60GK/SEH (SV-400G) | X       | X                | X   | O    | X            | X   | O           | X           | 1 SCART      | SP/LP         | O   |        |
| SV-A60GK/POL (SV-400G) | X       | X                | X   | O    | X            | X   | O           | X           | 1 SCART      | SP/LP         | O   |        |
| SV-A80GK/SEH (SV-405G) | O       | O                | O   | O    | O            | O   | O           | O           | 1 SCART      | SP/LP         | O   |        |
| SV-A80GK/POL (SV-405G) | O       | O                | O   | O    | O            | O   | O           | O           | 1 SCART      | SP/LP         | O   |        |

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## 4. Disassembly and Reassembly

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### 4-1 Cabinet Assembly

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**Note :** Disassemble in the order shown.  
Reassemble in reverse order.

#### 4-1-1 Cabinet Top removal

1. Remove 5 screws and slide the top cabinet to the rear to remove.

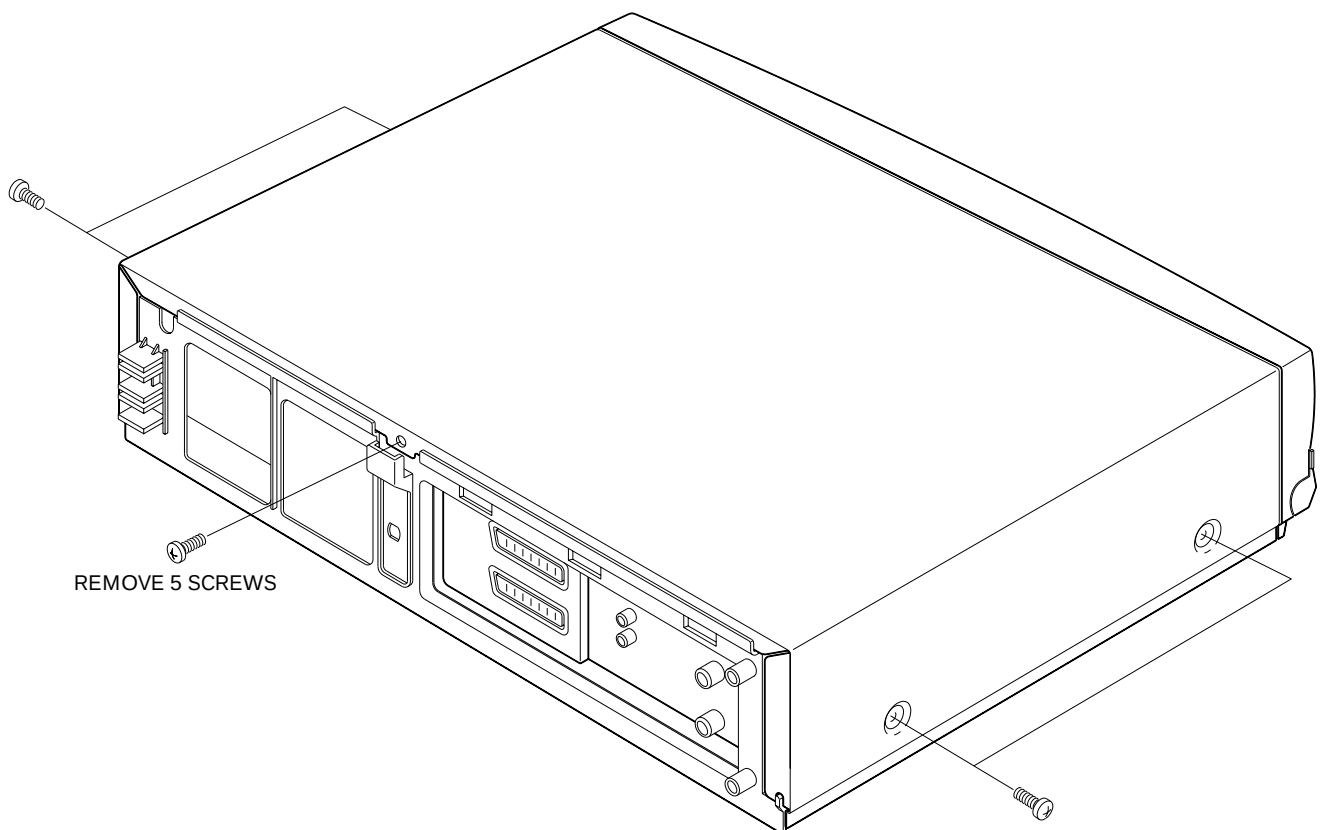


Fig. 4-1 Cabinet Top removal

## 4-1-2 Bottom cover removal

1. Remove 2 screws.
2. Lift up the bottom cover toward arrow "A".

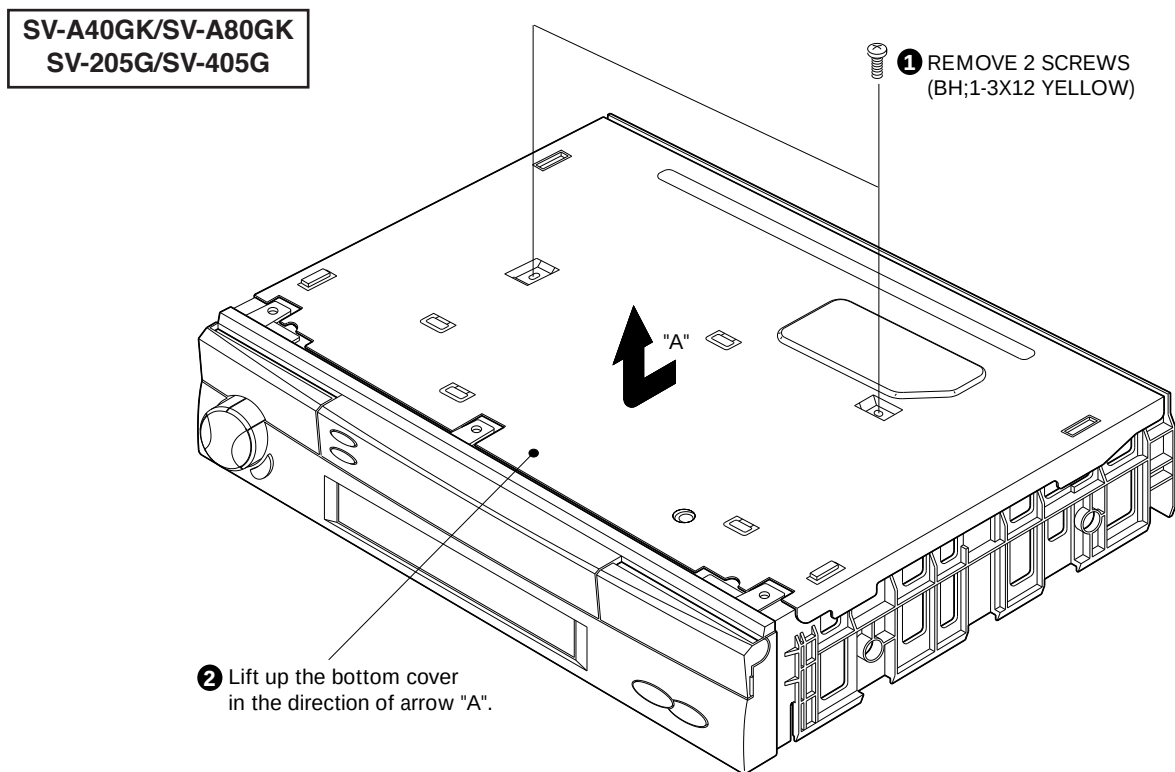
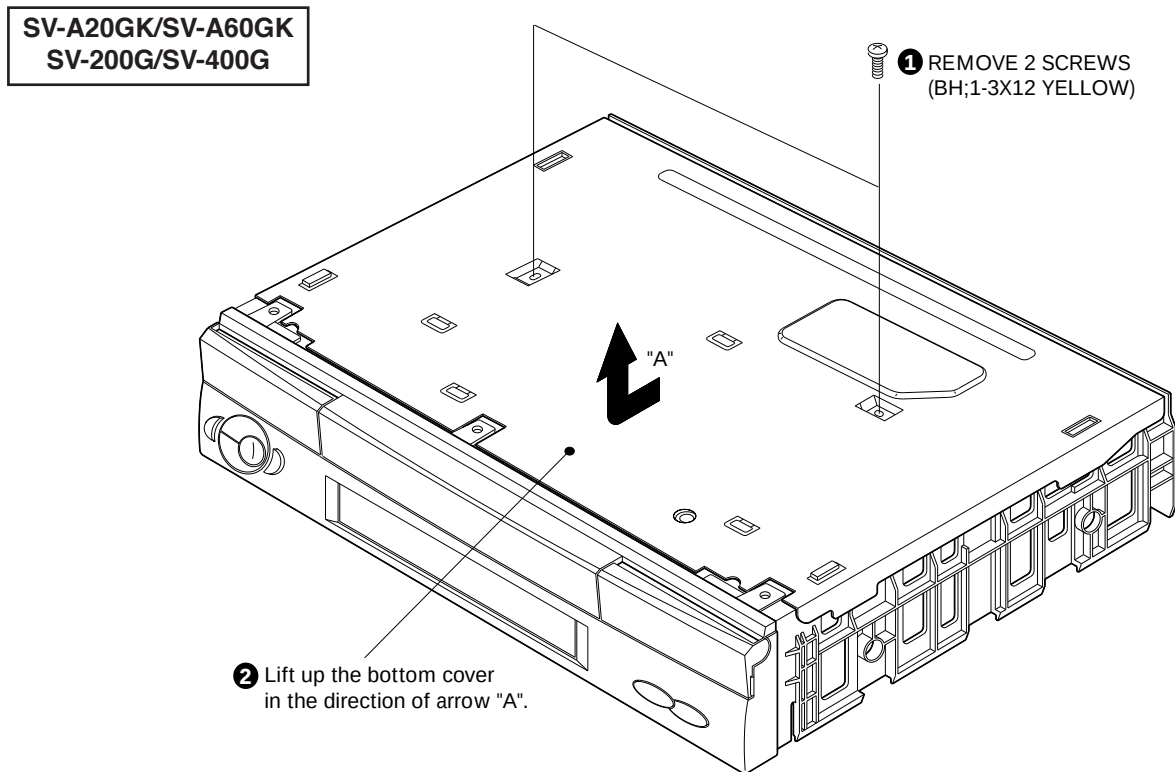


Fig. 4-2 Bottom Cover removal

### 4-1-3 Ass'y Front Panel removal

1. Remove the knob-shuttle.
2. Release 4 hooks on the top side and 3 hooks on the bottom side and then, pull the ass'y front panel to remove.

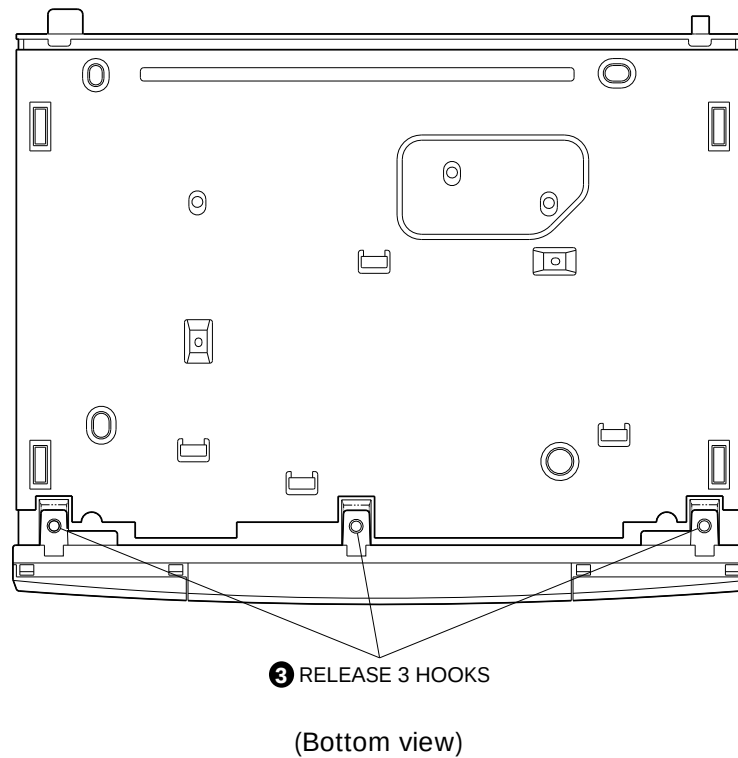
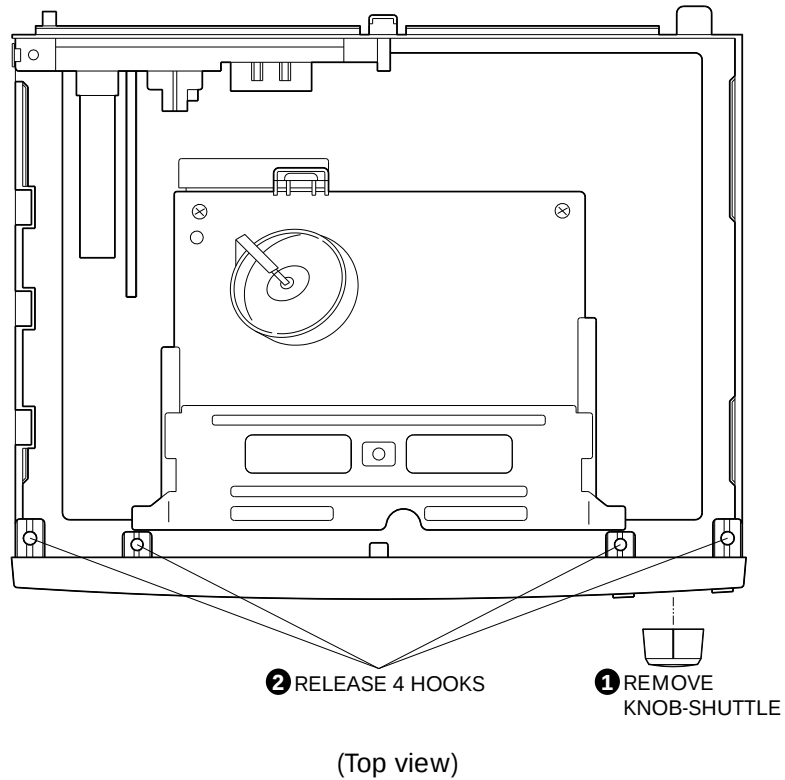


Fig. 4-3 Ass'y Front Panel removal

#### 4-1-4 Ass'y Function-Timer removal

1. Release 5 hooks and remove the ass'y function-timer.

**Note :** Take extreme care not to damage the PCB when removing it.

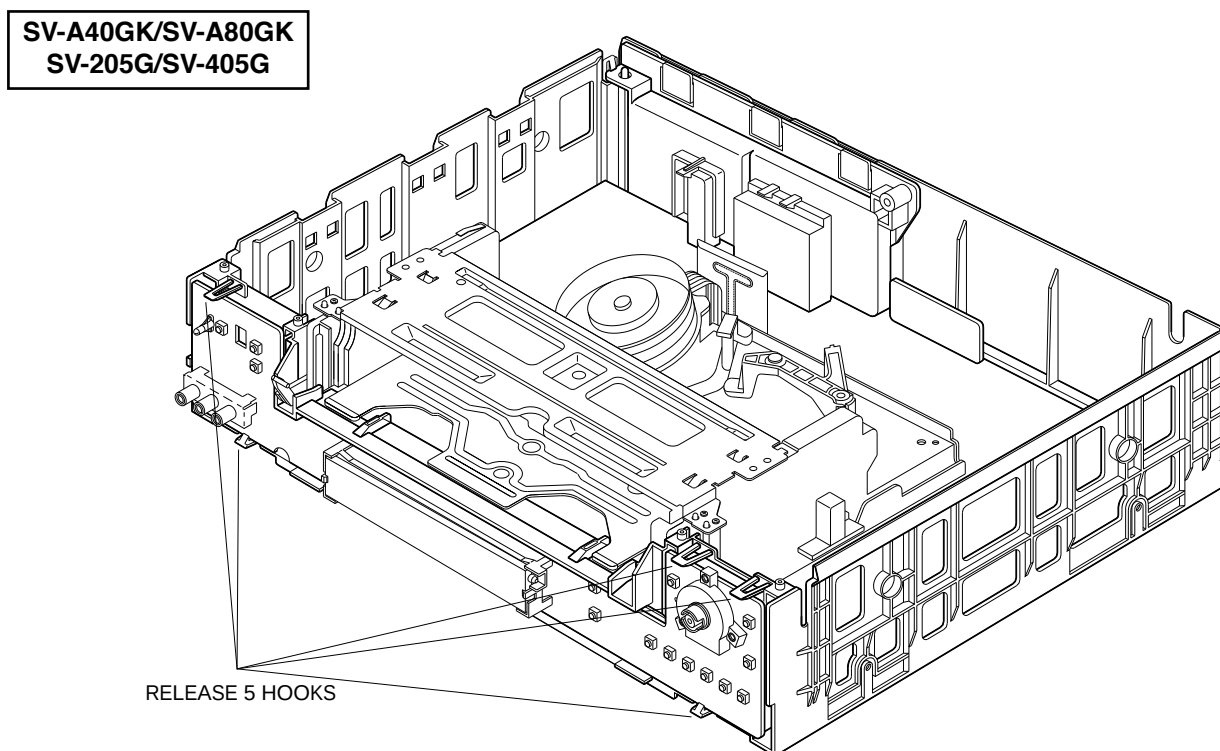
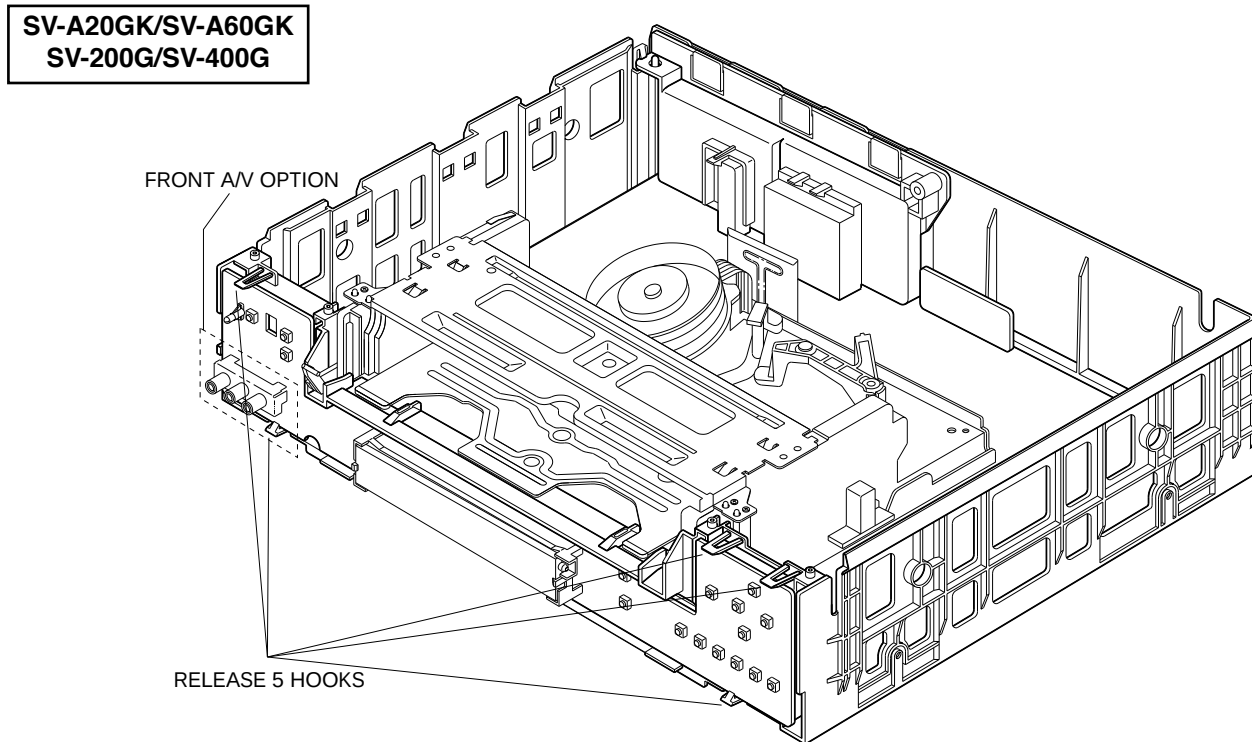


Fig. 4-4 Ass'y Function-Timer removal

### 4-1-5 Chassis removal

1. Remove 2 screws holding the bottom cover.
2. Remove 2 screws holding the frame.
3. Remove 2 screws holding the housing ass'y.
4. Remove 2 screws holding the ass'y full deck.
5. Lift the ass'y full deck up.
6. Release 1 tab holding the connector board ass'y.
7. Release 1 hook holding the ass'y main.
8. Lift the ass'y main up to remove.

**Note :** 1. When removing chassis, take extreme care not to damage the main PCB front.  
2. When reinstalling the deck on the main PCB, take extreme care not to damage the sensor.

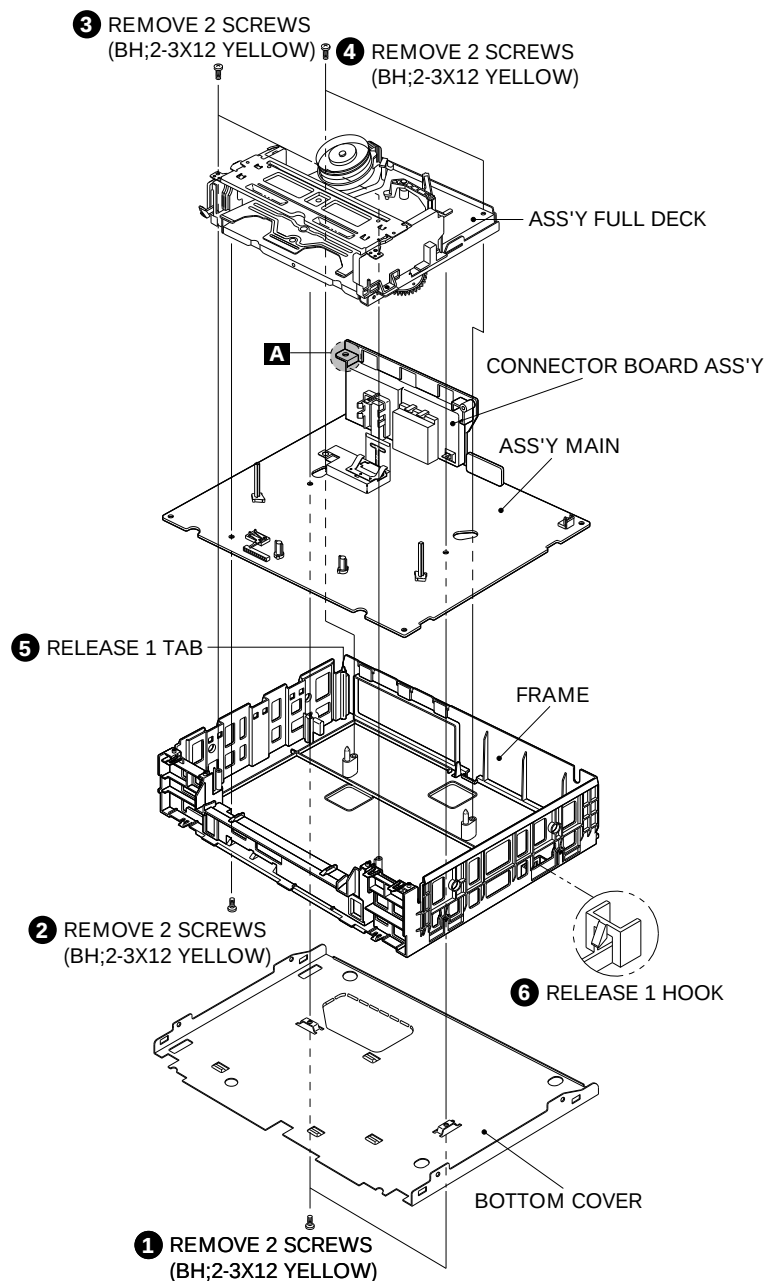


Fig. 4-5 Chassis Removal

## 4-2 Circuit Board Locations

SV-A20GK/SV-A60GK  
SV-200G/SV-400G

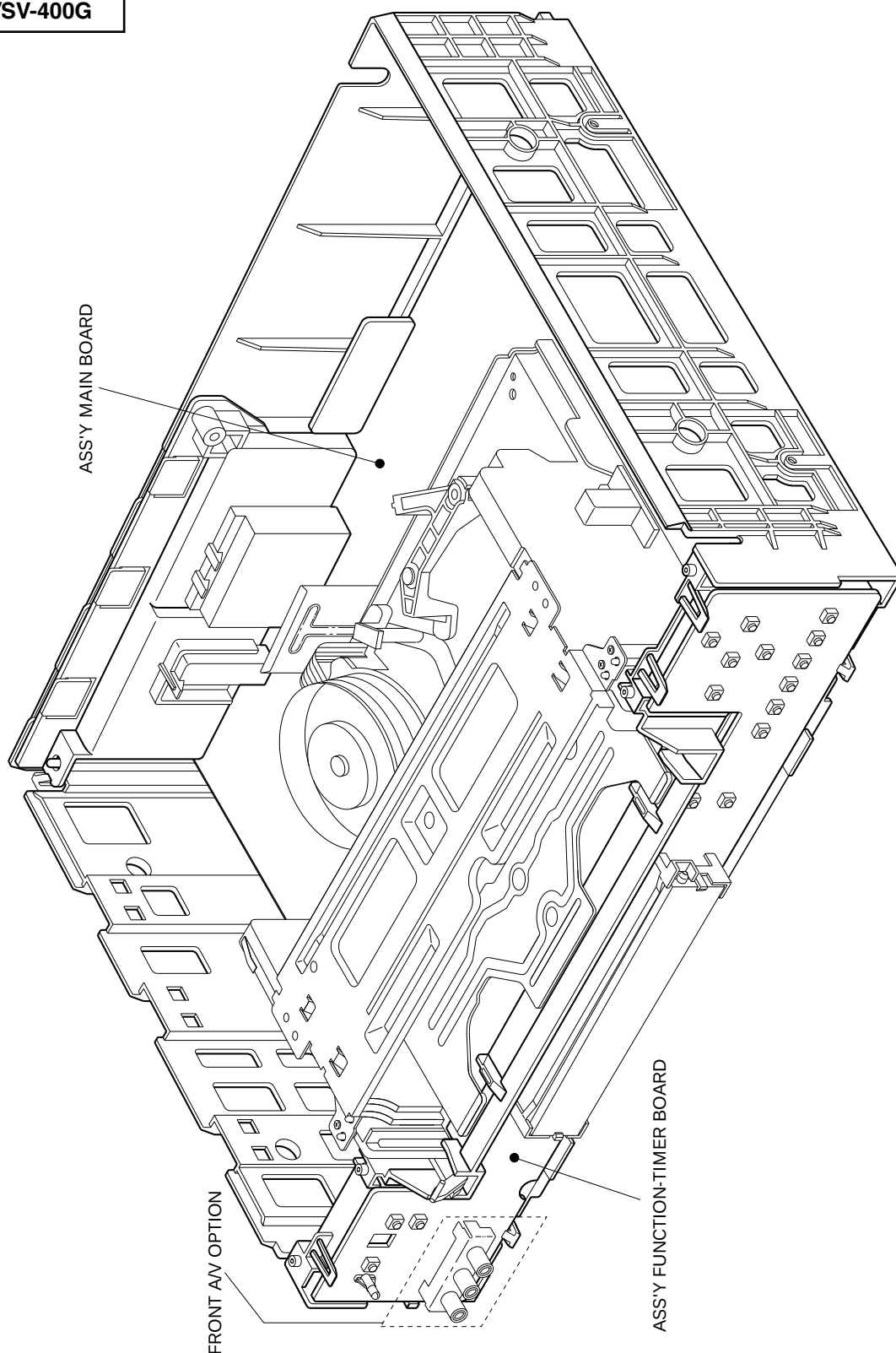


Fig. 4-6 Circuit Board Locations

**SV-A40GK/SV-A80GK  
SV-205G/SV-405G**

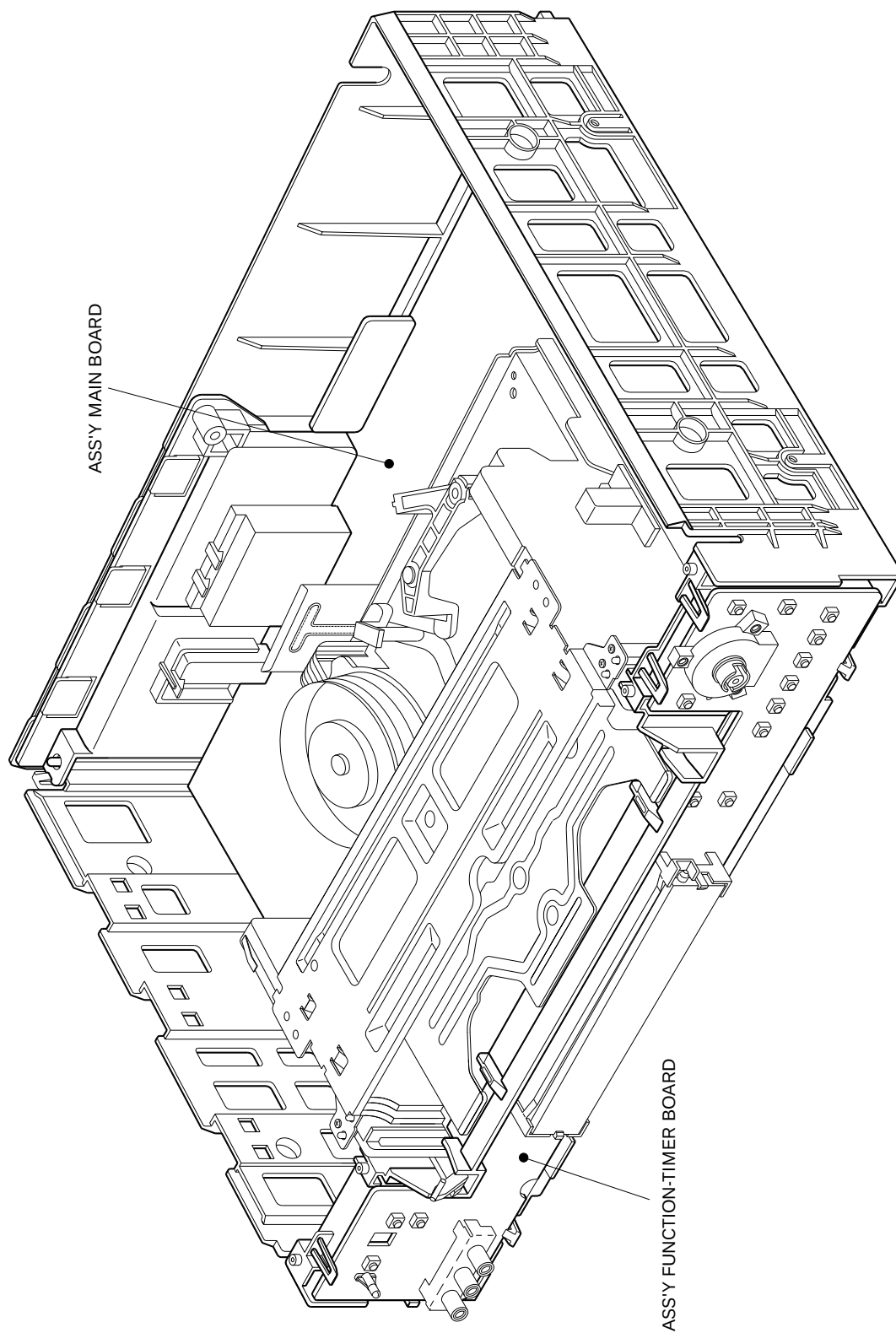


Fig. 4-6 Circuit Board Locations

## MEMO

## 5. Alignment and Adjustment

**Note :** After replacing the ass'y full deck, the ass'y main, the cylinder ass'y and the micom(IC601), the remote control ass'y can be used to adjust the "X-point (tracking center) adjustment" and "Head S/W point" adjustment.

### 5-1 Reference

#### 5-1-1 The type of remote control ass'y

1. Remote control ass'y (AC93-10039Y/69099-633-252) is specified as a service jig in the service manual of X-5/X-6(DX5-R/DX5-RC/DX6-R/DX6-RC) chassis. (See Fig. 5-1)
2. Normal remote control ass'y for X-7/X-8 (DX7-R/DX7-RC/DX8-R/DX8-RC) chassis. (See Fig. 5-2)

#### 5-1-2 How to identify between normal remote control ass'y and multi remote control ass'y for X-7/X-8 chassis (See Fig. 5-2)

1. The color of some buttons related to TV function are gold.
2. Audio button is added instead of the test button hidden behind of inlay.
3. The positions of some buttons are different.

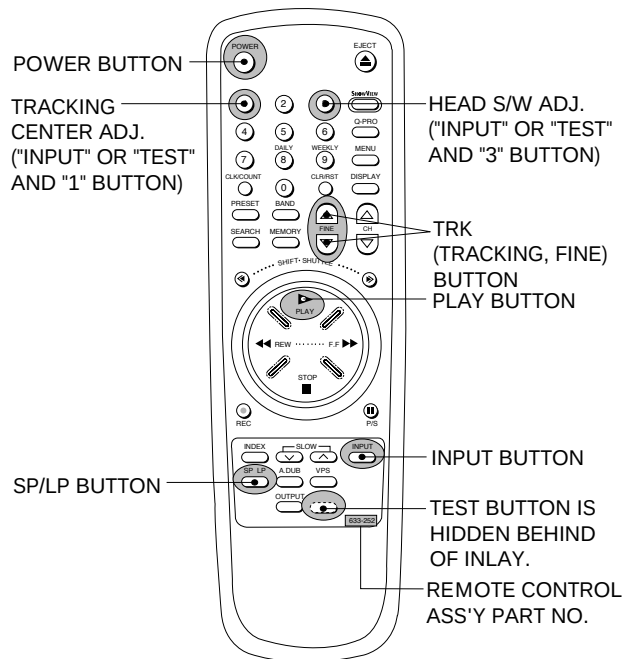


Fig. 5-1 Remote Control Ass'y Jig for X-5/X-6 Chassis (AC93-10039Y/69099-633-252)

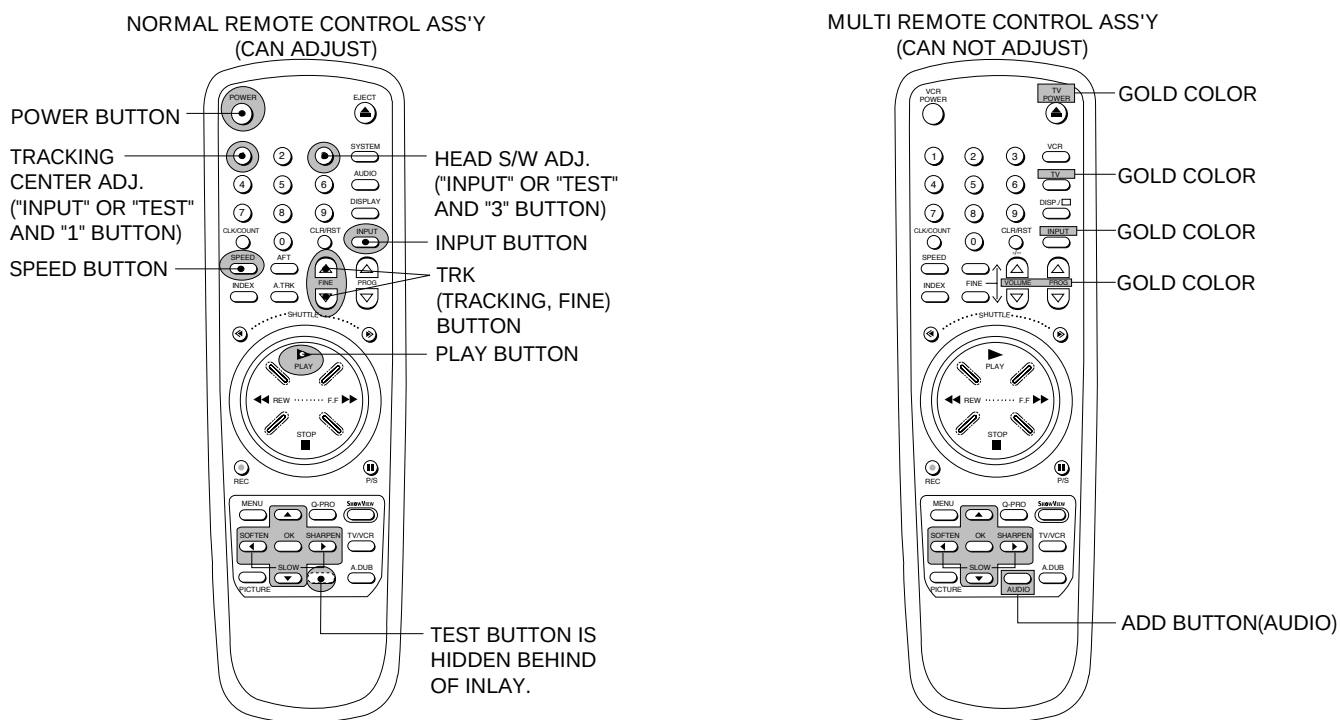


Fig. 5-2 Remote Control Ass'y for X-7/X-8 Chassis

## 5-2 Mechanical Adjustment

**Note :** Refer to the Mechanical Manual “DX7-R/DX7-RC/DX8-R/DX8-RC (AC68-20316A)” for the adjustment and confirmation of ass’y full deck.

### 5-2-1 The number and position of test point

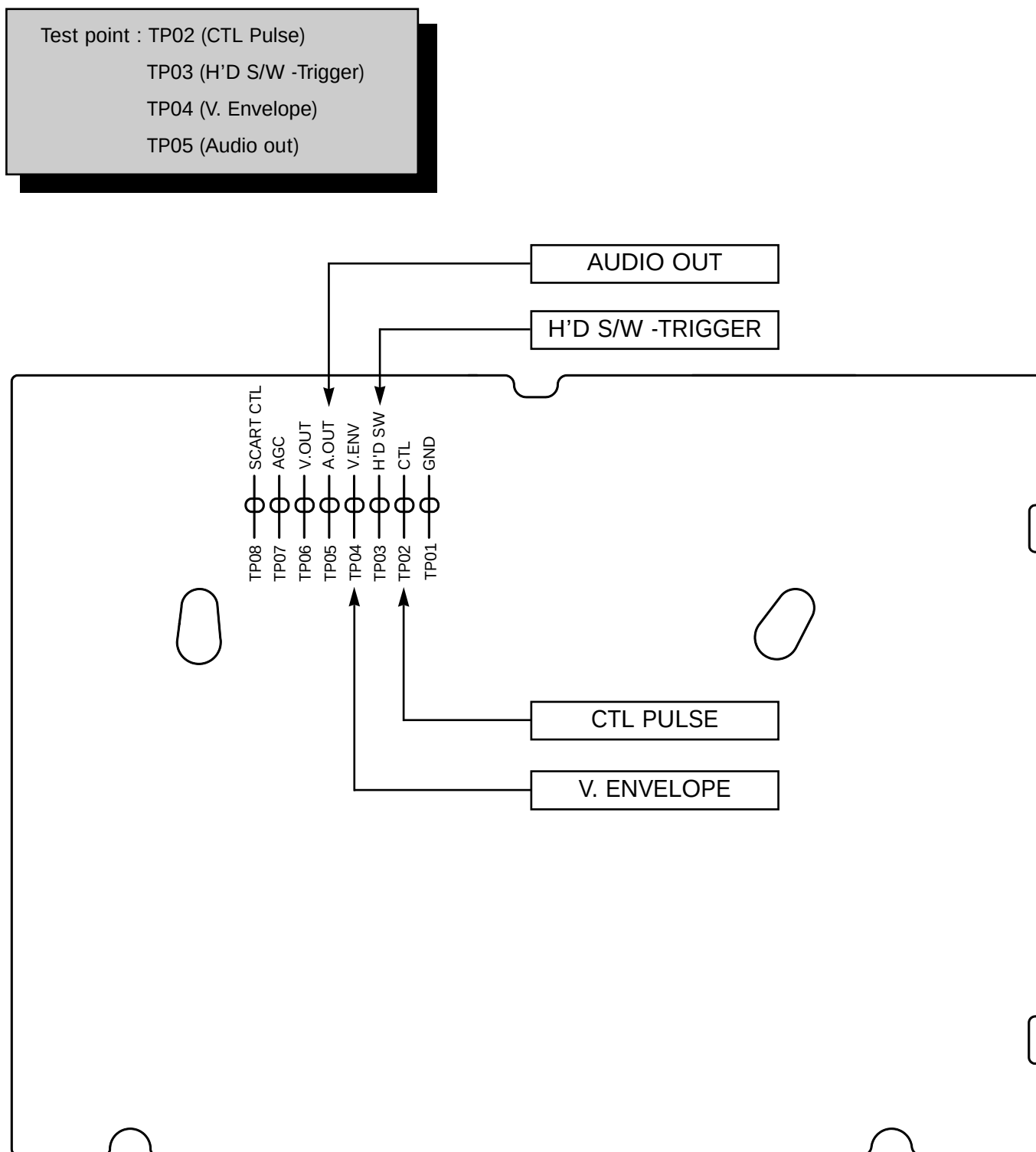


Fig. 5-3 The position of test point (Main PCB-Component side)

### 5-2-2 X-Point(Tracking center) adjustment (See the 2-2-1 (d) AC HEAD POSITION(X-POINT) ADJUSTMENT on page 2-3 of the mechanical manual)

#### 5-2-2 (a) IF THE REMOTE CONTROL ASS'Y IS NOT AVAILABLE

1. Playback the colorbar alignment tape.
2. Connect CH-1 scope probe to "TP02" and CH-2 scope probe to "TP03". And then, trigger head switching pulse.
3. Set tracking preset to 11msec (2head : 2.7msec, 4, 6head : 11msec) using the "FINE(Tracking, TRK)" button ▲ / ▼ of the other remote control ass'y except the remote control ass'y jig for X-5/ X-6 chassis and the normal remote control ass'y for X-7/ X-8 chassis.
4. Connect CH-1 scope probe to "TP02" and the CH-2 to "TP03" trigger on CH-1.
5. Insert the adjusting driver (+) into X-position adjusting gear. Adjust the driver in either direction for maximum envelope waveform.

**Note :** Since the adjusting gear unit may be damaged, do not adjust by force when adjusting the X-point using the adjusting driver (+). After turn the X-point adjusting screw (D) counterclockwise a little, perform the adjustment. After adjustment is completed, tighten the screw.

#### <Setting of scope>

- Volt/div. : CH-1 = 0.1V                      - Time/div. : 5msec  
CH-2 = 0.2V

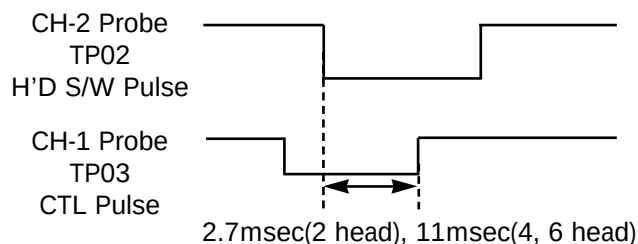


Fig. 5-4 Tracking preset adjustment

| REMOTE<br>BUTTONS         | CONTROL PULSE REMOVE |
|---------------------------|----------------------|
| TRACKING<br>▲ ← PUSH<br>▼ |                      |
| TRACKING<br>▲<br>▼ → PUSH |                      |

Fig. 5-5 Tracking preset adjustment

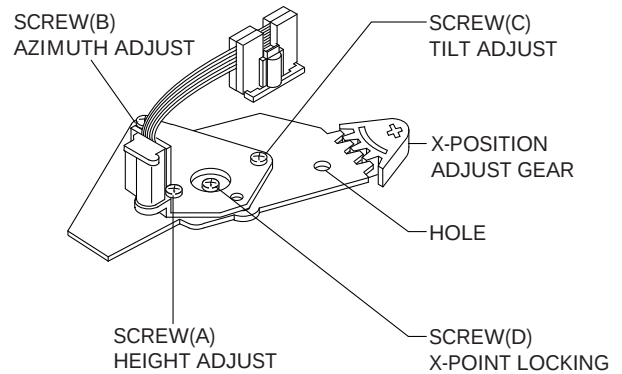


Fig. 5-6 Location of A/C Head adjustment screw

#### 5-2-2 (b) IF THE REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

**Note :** How to use the "TEST" button.

1. Disattach the inlay of remote control ass'y. (See Fig. 5-1 and Fig. 5-2)
  2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)
1. When using the "INPUT" button of remote control ass'y;
    - 1) Simultaneously press the "INPUT" button and "1" button in PB mode.  
This will adjust the tracking center automatically.
    - 2) Set the tracking preset using the "FINE(Tracking, TRK)" button of remote control.
    - 3) After adjustment is completed, press the "POWER" button to release.
  2. When using the "TEST" button of remote control ass'y ;
    - 1) Simultaneously press the "TEST" button and "5" button in PB mode.  
This will adjust the tracking center automatically.
    - 2) Set the tracking preset using the "FINE (Tracking, TRK) button of remote control.
    - 3) After adjustment is completed, press the "POWER" button to release.

5-2-2 (b) IF THE NORMAL REMOTE CONTROL  
ASS'Y OF X-7/X-8(DX7-R/DX7-RC/  
DX8-R/DX8-RC) CHASSIS IS  
AVAILABLE

**Note 1 :** Two kinds of remote control ass'y are used  
for X-7/X-8(DX7-R/DX7-RC/DX8-R/  
DX8-RC) chassis.

1. One is a normal remote control ass'y, the other is a multi remote control ass'y
2. All adjustments are adjusted by normal remote control ass'y only.
3. For the identification of normal remote control ass'y and multi remote control ass'y, See page 5-1.

**Note 2 :** How to use the "TEST" button.

1. Disattach the inlay of remote control ass'y.  
(See Fig. 5-1 and Fig. 5-2)
  2. Press the "TEST" button with the pincers and the precise driver as shown in Fig. 5-1 and 5-2)
- 
1. When using the "INPUT" button of remote control ass'y;
    - 1) Simultaneously press the "INPUT" button and "1" button in PB mode.  
This will adjust the tracking center automatically.
    - 2) Set the tracking preset using the "FINE(Tracking, TRK)" button of remote control.
    - 3) After adjustment is completed, press the "POWER" button to release.
  2. When using the "TEST" button of remote control ass'y ;
    - 1) Simultaneously press the "TEST" button and "5" button in PB mode.  
This will adjust the tracking center automatically.
    - 2) Set the tracking preset using the "FINE (Tracking, TRK) button of remote control.
    - 3) After adjustment is completed, press the "POWER" button to release.

## 5-3 Electrical Adjustment

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### 5-3-1 Head S/W Adjustment

**Note :** Only remote control ass'y can adjust.

#### 5-3-1 (a) IF REMOTE CONTROL ASS'Y (AC93-10039Y/69099-633-252) IS AVAILABLE

1. When using the **"INPUT"** button of remote control ass'y ;

- 1) Insert an SP tape into the housing ass'y.
- 2) Press the **"PLAY"** button.
- 3) Press the **"INPUT"** button and **"3"** button simultaneously.
- 4) This will adjust the head S/W point adjustment automatically.
- 5) After the adjustment is completed, press **"POWER"** button to release.

2. When using the **"TEST"** button of remote control ass'y ;

- 1) Insert an SP tape into the housing ass'y.
- 2) Press the **"PLAY"** button.
- 3) Press the **"TEST"** button and **"SP/LP"** button simultaneously.
- 4) This will adjust the head S/W point adjustment automatically.
- 5) After adjustment is completed, press the **"POWER"** button to release.

#### 5-3-1 (b) IF NORMAL REMOTE CONTROL ASS'Y FOR X-7/X-8(DX7-R/DX7-RC/ DX8-R/DX8-RC) CHASSIS IS AVAILABLE

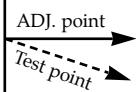
1. When using the **"INPUT"** button of remote control ass'y ;

- 1) Insert an SP tape into the housing ass'y.
- 2) Press the **"PLAY"** button.
- 3) Press the **"INPUT"** button and **"3"** button simultaneously.
- 4) This will adjust the head S/W point adjustment automatically.
- 5) After the adjustment is completed, press **"POWER"** button to release.

2. When using the **"TEST"** button of remote control ass'y ;

- 1) Insert an SP tape into the housing ass'y.
- 2) Press the **"PLAY"** button.
- 3) Press the **"TEST"** button and **"SPEED"** button simultaneously.
- 4) This will adjust the head S/W point adjustment automatically.
- 5) After adjustment is completed, press the **"POWER"** button to release.

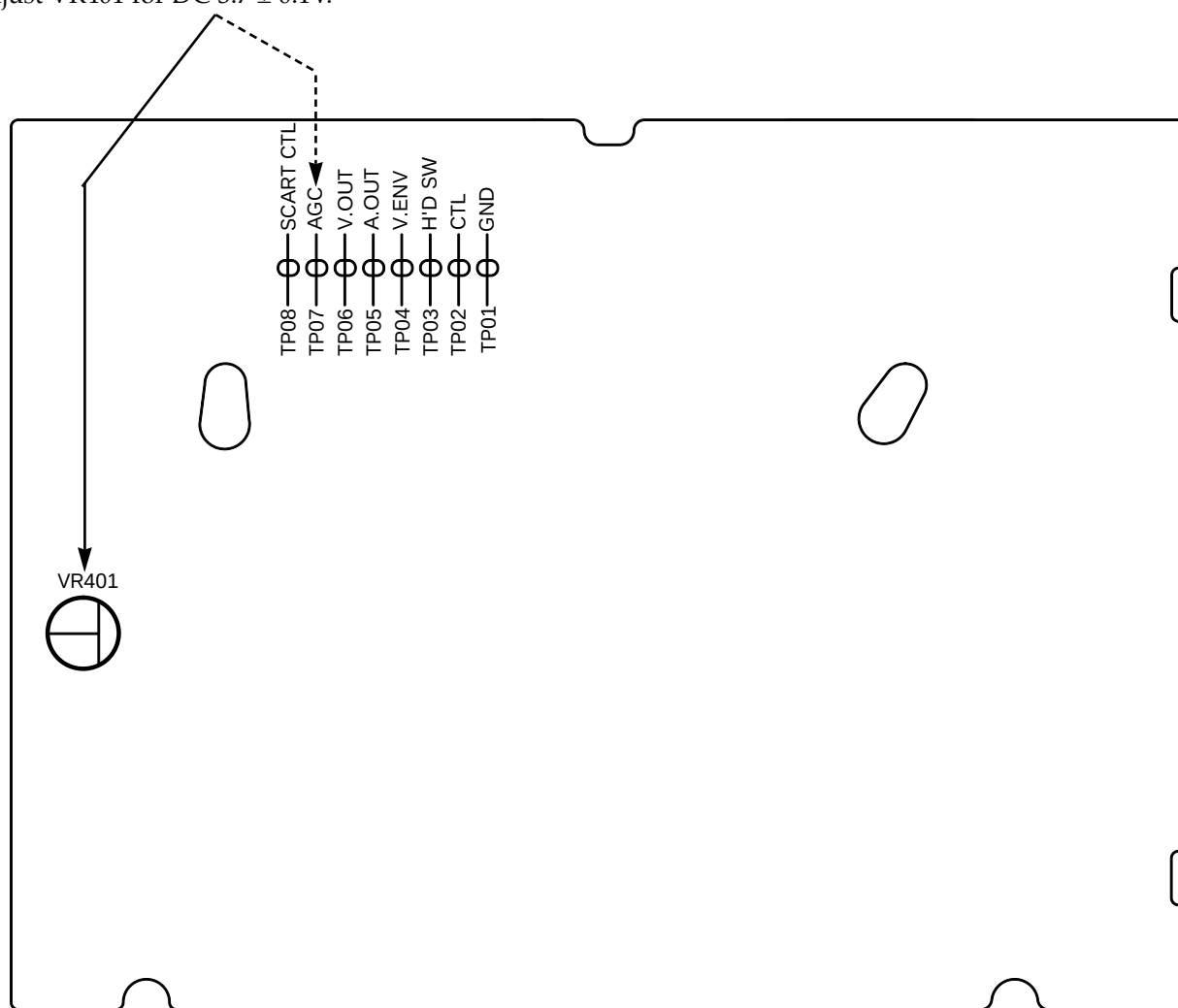
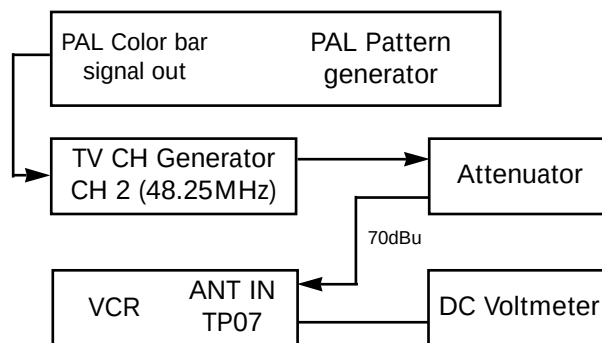
### 5-3-2 RF AGC Adjustment

| Step                                        | Adjustment Item                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------|
| 1. Mode and input signal/<br>alignment tape |  |
| 2. Test point and ADJ. part                 |                                                                                   |
| 3. Result and Remarks                       |                                                                                   |

#### 5-3-2 (a) ADJUSTMENT PROCEDURES

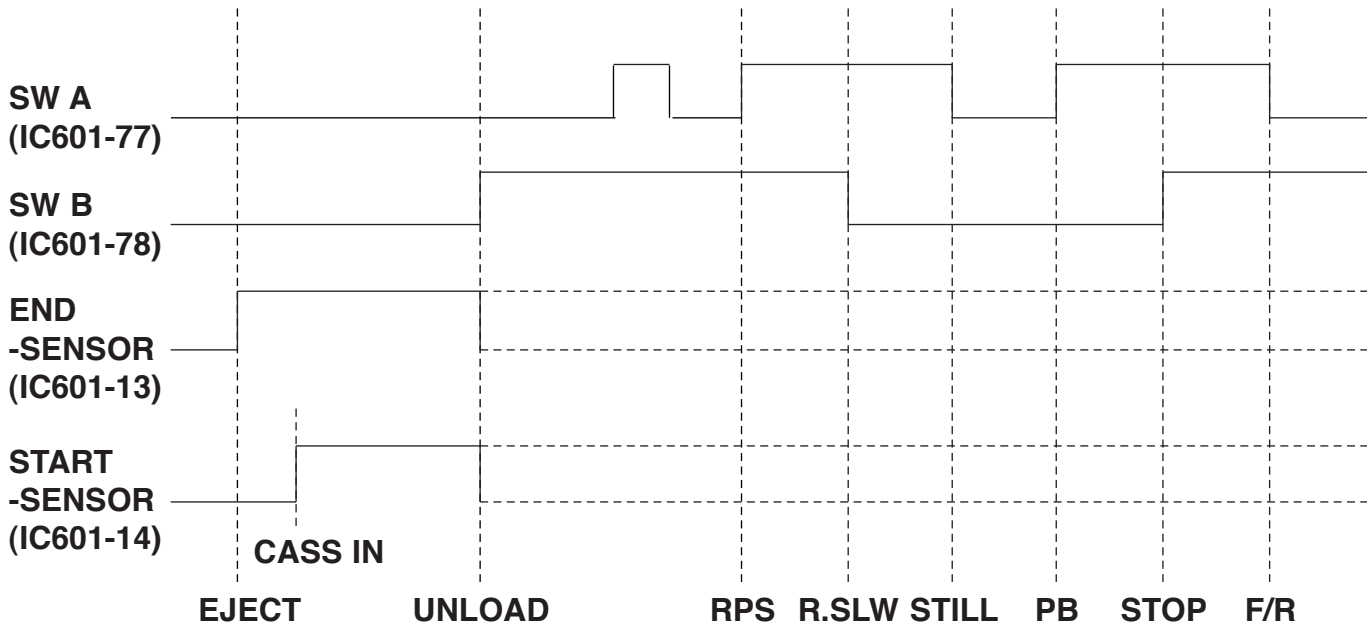
1. "E-E" (stop mode), RF signal.
2. TP07 and VR401.
3. Apply PAL color bar signal to the video input terminal of the TV channel generator and set channel selector to CH 2 (48.25MHz).
4. Adjust the point signal level so that the output of attenuator is 70dBu.
5. Apply the output of attenuator to the ANT IN terminal of VCR.
6. Set the channel of VCR to CH 2.
7. Connect DC voltmeter to TP07.
8. Adjust VR401 for DC  $3.7 \pm 0.1V$ .

#### \* Composition for RF AGC adjustment



Main PCB (Component side)

## 5-4 Timing Chart of Program S/W



| Position    | Program S/W (SW601) |     |      |      | Action Mode                          |
|-------------|---------------------|-----|------|------|--------------------------------------|
|             | E/S                 | S/S | SW A | SW B |                                      |
| Eject       | L                   | L   | L    | L    | Eject                                |
| Cassette IN | H                   | L H | L    | L    | Cassette IN                          |
| Unload      | -                   | -   | L    | L H  | Unload                               |
| R. PS       | -                   | -   | L H  | H    | R. PS, Z-R. PS                       |
| R. Slow     | -                   | -   | H    | H L  | Pinch Roller off Position            |
| Still       | -                   | -   | H L  | L    | Still, Slow, F-ADV                   |
| Play        | -                   | -   | L H  | L    | PB, T-Stop, REC, Pause, F. PS, Z-FPS |
| Stop        | -                   | -   | H    | L H  | Stop, Power off                      |
| FF/REW      | -                   | -   | H L  | H    | FF, REW                              |

## MEMO

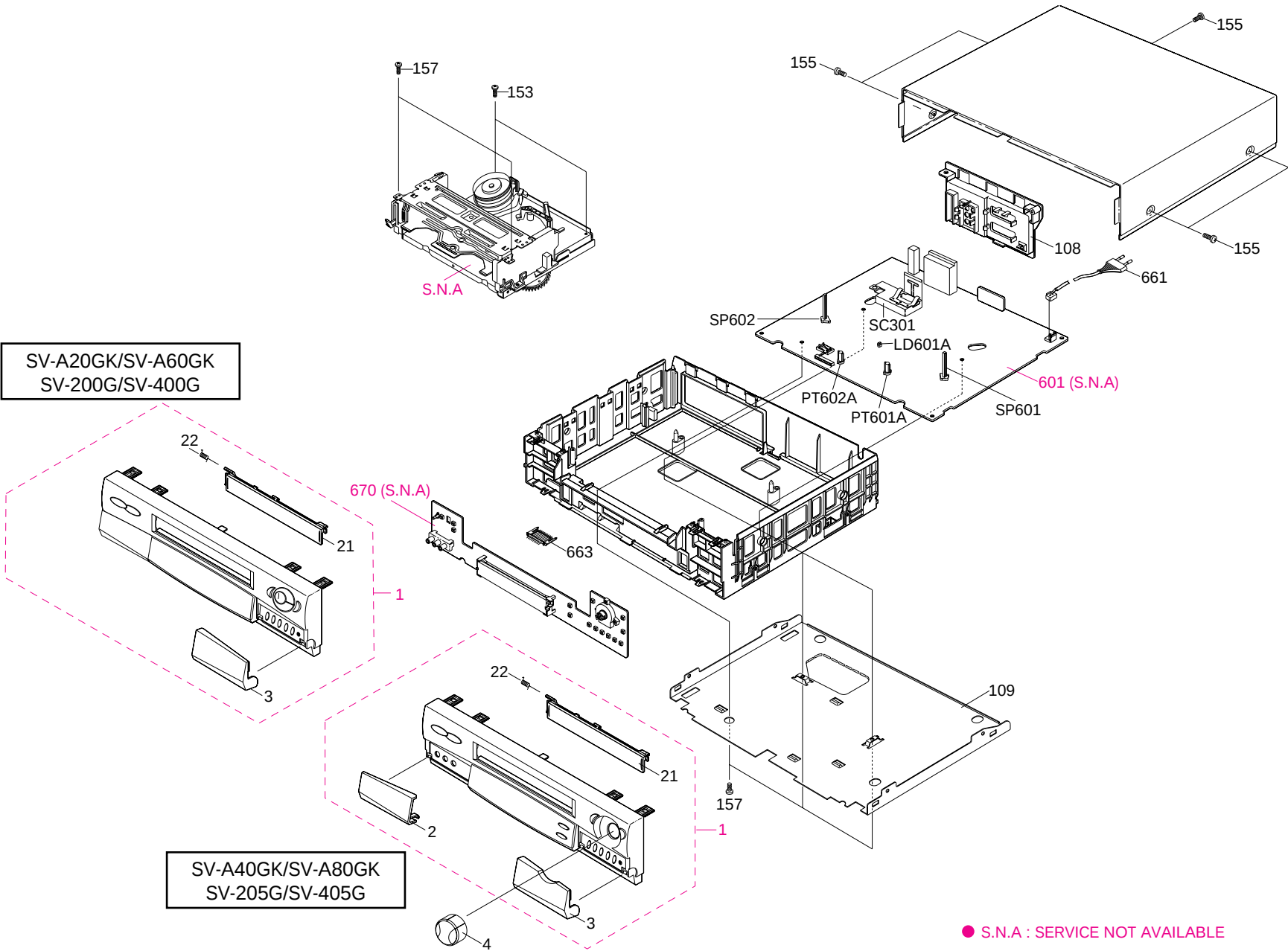
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# 6. Exploded View and Parts List

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|                                              | Page |
|----------------------------------------------|------|
| 6-1 Cabinet Assembly - - - - -               | 6-2  |
| 6-2 Mechanical Parts (Top Side) - - - - -    | 6-4  |
| 6-3 Mechanical Parts (Bottom Side) - - - - - | 6-6  |
| 6-4 Housing Assembly - - - - -               | 6-8  |

6-1 Cabinet Assembly



● S.N.A : SERVICE NOT AVAILABLE

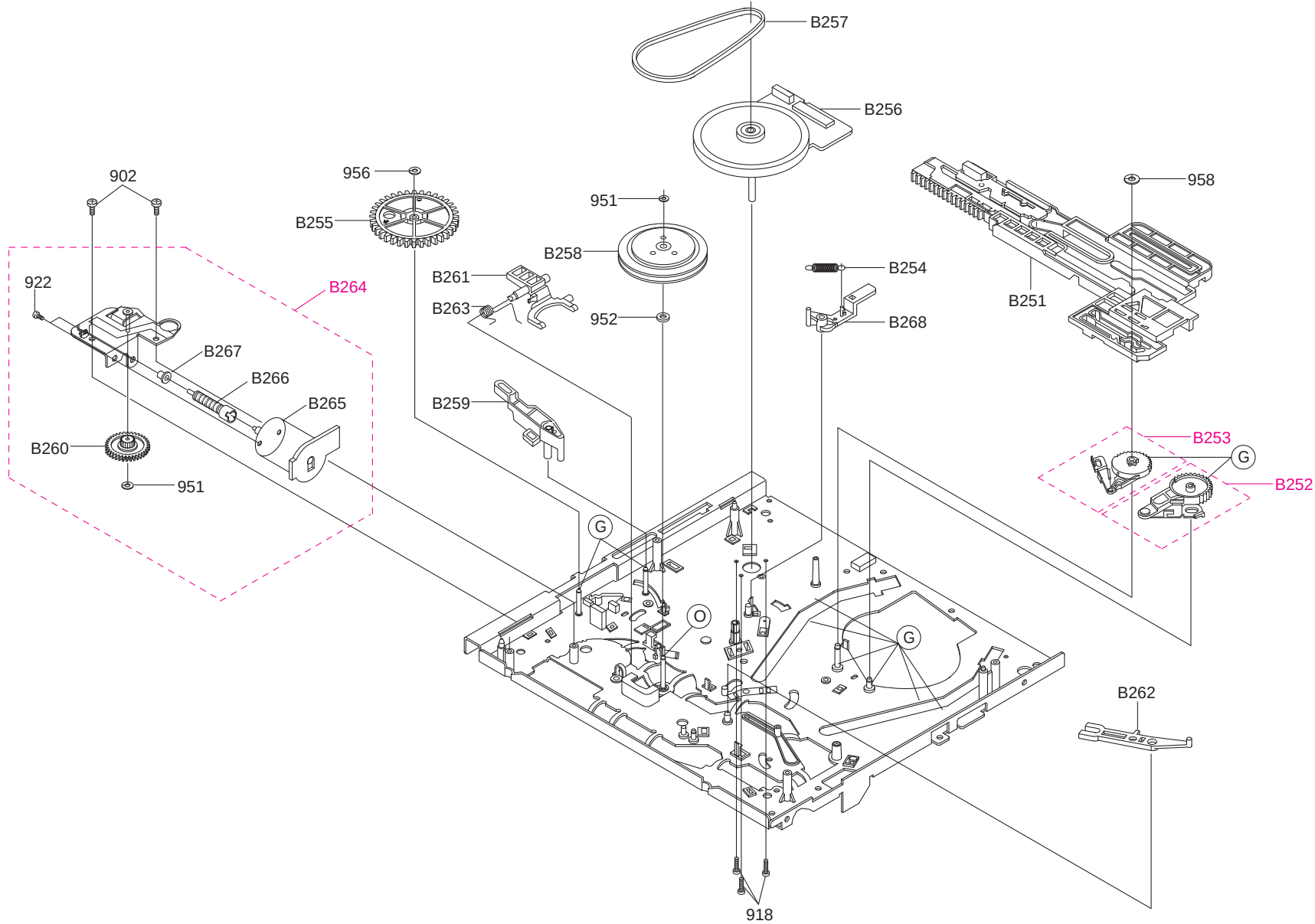
| Loc. No | Part No      | Description and Specification                    | Remark     |
|---------|--------------|--------------------------------------------------|------------|
| -       | DO NOT ORDER | ASSY-FULL DECK (DX7-R)                           | S.N.A      |
| 1       | AC98-11214B  | ASSY-PANEL FRONT;SV-A20GK/SEH,SV-200G/SEH        | SESA LOCAL |
|         | AC98-11217G  | ASSY-PANEL FRONT;SV-A20GK/POL,SV-200G/POL        | SESA LOCAL |
|         | AC98-11217J  | ASSY-PANEL FRONT;SV-A40GK/SEH,SV-205G/SEH        | SESA LOCAL |
|         | AC98-11217F  | ASSY-PANEL FRONT;SV-A40GK/POL,SV-205G/POL        | SESA LOCAL |
|         | AC98-11214C  | ASSY-PANEL FRONT;SV-A60GK/SEH,SV-400G/SEH        | SESA LOCAL |
|         | AC98-11217E  | ASSY-PANEL FRONT;SV-A60GK/POL,SV-400G/POL        | SESA LOCAL |
|         | AC98-11217H  | ASSY-PANEL FRONT;SV-A80GK/SEH,SV-405G/SEH        | SESA LOCAL |
|         | AC98-11217D  | ASSY-PANEL FRONT;SV-A80GK/POL,SV-405G/POL        | SESA LOCAL |
| 2       | *****        | DOOR-FRONT L                                     | SESA LOCAL |
| 3       | *****        | DOOR-FRONT R                                     | SESA LOCAL |
| 4       | AC64-10856A  | KNOB-SHUTTLE;SV-A40GK/A80GK/SV-205G/405G ONLY    | SESA LOCAL |
| 21      | *****        | DOOR-CASSETTE                                    | SESA LOCAL |
| 22      | AC61-62003A  | SPRING;-;SUS304,(GE/RCA),-;-;-                   | SESA LOCAL |
| 108     | AC61-10972K  | CONNECTOR BOARD-ASSY;SV-A70XK,HIPS94,HB,T2.5,L20 | SME LOCAL  |
| 109     | AC63-32126A  | COVER-BOTTOM;SV-D140F;-                          | SESA LOCAL |
| 153     | AC60-12126A  | SCREW-BH;-;BH,-;4*12,FE,FZY,-;-;-                |            |
| 155     | AC60-12134A  | SCREW-TAP BH;-;BH,-;2-4X16,-;FE                  |            |
| 157     | AC60-10063A  | SCREW-TAPTITE;BH,+;-;M3,L12,ZPC3,SWRCH18A        |            |
| 601     | DO NOT ORDER | ASSY-MAIN;                                       | S.N.A      |
| 661     | AC39-10019A  | POWER CORD;KKP-419C,H03VVH2-F,VDE/KEMA-KE        | SESA LOCAL |
| 663     | 3711-002603  | CONNECTOR-HEADER;NOWALL,20P,1R,1.5MM,STRAIGHT,SN |            |
| 670     | DO NOT ORDER | ASSY-F/TIMER                                     | S.N.A      |
| LD601A  | AC61-22345A  | HOLDER-LED;POM,-;-;-;-                           | SME LOCAL  |
| PT601A  | AC61-22344A  | HOLDER-PHOTO;POM,-;-;-;-                         | SME LOCAL  |
| PT602A  | AC61-22344A  | HOLDER-PHOTO;POM,-;-;-;-                         | SME LOCAL  |
| SC301   | AC98-12023J  | ASSY-SH/CASE TOP;SV-A140F,IS-PAL ASSY S/C TOP    | SME LOCAL  |
| SP601   | AC61-22321A  | HOLDER-TR;POM,-;-;-;-                            | SME LOCAL  |
| SP602   | AC61-22321A  | HOLDER-TR;POM,-;-;-;-                            | SME LOCAL  |

**Note :** The part numbers of location numbers 2, 3 and 21 will be informed separately later.



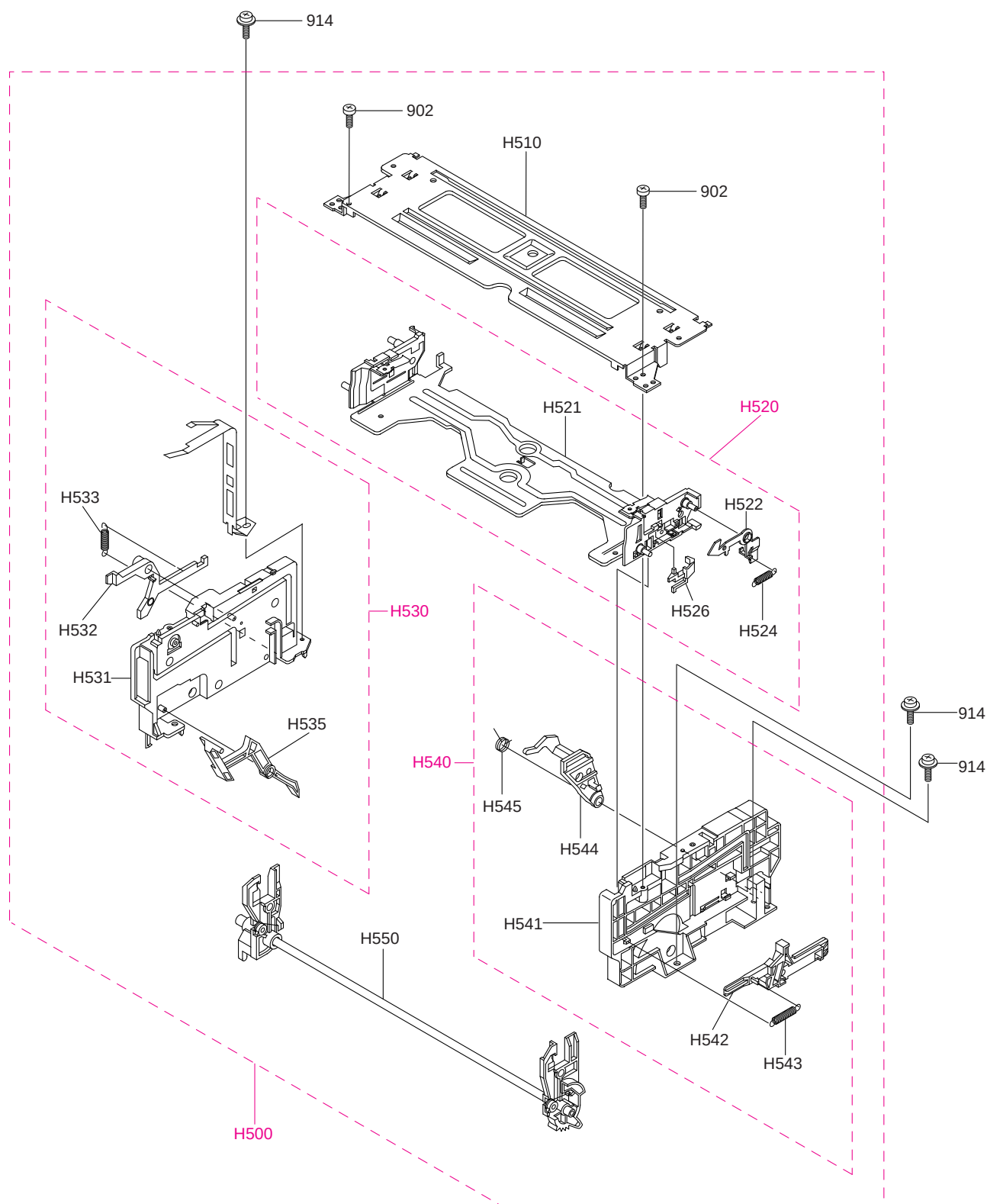
| Loc. No | Part No       | Description and Specification                     | Remark          |
|---------|---------------|---------------------------------------------------|-----------------|
| 900     | AC60-12091A   | SCREW-MACHINE;FP,BH,-,M3,L4,SWRCH10A,YEL ROB      |                 |
| 901     | AC60-10012A   | SCREW-MACHINE;BH,+,M3,L8,-,FE,-,-,-               |                 |
| 904     | AC60-12125A   | SCREW-PH;-,-,M3X6 TAP TITE,-,-,-,-                |                 |
| 905     | AC60-12096A   | SCREW-MACHINE;FP,PH,-,M2.6,X10,SWRCH1-A,YEL       |                 |
| 912     | 67094-604-710 | SCREW-DAMPER;M2.0X7.0 SWCM 10(MFZN2-C)            |                 |
| 919     | AC60-10004A   | SCREW-MACHINE;BH,+,M3,L8,ZPC,SWRCH18A,-,-,-       |                 |
| 920     | AC60-10007A   | SCREW-TAPPING;BH,+,M2.6,L12,-,SWRCH18A,-,-,-      |                 |
| 952     | AC60-30018A   | WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,       |                 |
| 956     | AC60-30007A   | WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-         |                 |
| 957     | AC60-30008A   | WASHER-SLIT;-,ID3.5,OD9,T0.5,SPC1,-,-             |                 |
| T201    | AC66-10023A   | REEL-DISK L ASSY;POM,-,PACKAGE,X-5,-              |                 |
| T202    | AC66-10022A   | REEL-DISK R (ASSY);POM,-,PACKAGE,X-5,-            |                 |
| T203    | AC66-30474A   | BRAKE-SUB L;-,-PBT,-,-,-,X-5/IS                   |                 |
| T204    | AC66-30148A   | BRAKE SUB R-ASSY;PBT,-,-,-,X5,-                   |                 |
| T207    | AC66-30475A   | BRAKE-MAIN L ASS'Y;-,-POM+PELT,-,-,-,X-5/IS       |                 |
| T208    | AC66-30476A   | BRAKE-MAIN R ASS'Y;-,-POM+PELT,-,-,-,X-5/IS       |                 |
| T209    | AC61-60112A   | SPRING- BRAKE MAIN;ES,SUS304WPB,PI0.35,ID2.8,OD4. |                 |
| T210    | AC66-20073A   | GEAR RELAY S-ASSY;-,-PEBAX,M0.5,M48,SP,X5,-       |                 |
| T211    | AC66-20037A   | GEAR- RELAY T;PEBAX7033,X-5,Z39,GEAR-SPUR,D1      |                 |
| T212    | AC66-30073A   | ARM-TENSION ASSY;-,-,-,CKD,DX5-R,-                |                 |
| T216    | AC61-60119A   | SPRING TENSION;ES,SWPB,PI0.35,ID2.1,L33(OD3.8),-  |                 |
| T217    | AC66-30470A   | LEVER-REC S/W;-,-PBT #3300,T4.0,L32,-,(X-5/IS     |                 |
| T218    | AC61-62017A   | SPRING-SUB BRAKE L;ES,SUS304,PI0.23,D3.5,L14.8,-, |                 |
| T219    | AC33-10003P   | HEAD- MAGNET F/E;MH131S,-,-,-,L51.05XW7.4XH12.3   |                 |
| T220    | AC66-82050A   | SLIDER-G/R ASSY(S);-,-,-,-,X-5                    |                 |
| T221    | AC66-82059A   | SLIDER-G/R ASSY T;-,-,-,-,X-7(VW-31H)             |                 |
| T222    | AC33-10002E   | HEAD-CLEANER;-,-,-,-,X-5                          | (OPTIONAL)      |
| T223    | AC66-20065A   | RACK-HOUSING;L74.29,POM M90-44,BLK,M1,3.14,       |                 |
| T224    | AC33-10215A   | HEAD-ACE ALL ASSY;-,-X-7,-,-,-                    |                 |
| T225    | AC66-80005A   | SLIDER-PINCH;POM(M90-44),T2,L54.35,NAT,DX-5       |                 |
| T226    | AC66-30014A   | LEVER-REVIEW;ZYTEL(70G-43L),T3.8,-,PCD25.6,       |                 |
| T227    | AC66-30099A   | ARM REVIEW CKD;-,-,-,-,DX5-RV,-                   |                 |
| T228    | AC66-30013A   | LEVER-PINCH CAM;PBT 6300T,-,L45,W9,X-5,-          |                 |
| T229    | AC66-30003A   | LEVER PINCH COUP;PBT 3300,T7.5,L45.25,-,-,X-5     |                 |
| T230    | AC61-60116A   | SPRING- PINCH COMP;TS,SWPB,PI1.0,D6,L38(OD8),-    |                 |
| T231    | AC67-32001A   | PRISM-LED;PMMA,D5,IF-850,-,-,-                    |                 |
| T232    | AC66-82049A   | SLIDER-PUSH;LUPOX 2150,T2,-,NTR,-                 |                 |
| T233    | AC61-62016A   | SPRING-SLIDE PUSH;ES,SUS304WPB,PI0.55,D3.55,L24.  |                 |
| T234    | AC59-90001B   | UNIT-PINCH ROLLER;X-5,-,YAMAUCHI                  |                 |
| T236    | AC66-10010A   | IDLER-ASSY;PACKAGE,-,X-5,-                        |                 |
| T237    | AC61-40054A   | STOPPER-TAPE;POM M90-44,OD7,T1.5,NTR,X-5,-        | (OPTIONAL)      |
| T238    | AC61-60132A   | SPRING ARM PINCH;CS,SUS304WPB,PI0.4,D7.1,OD7.9,   |                 |
| T239    | AC66-30132A   | LEVER JOG-ASSY;-,-,-,-,X5,-                       | (DX8-R/RC ONLY) |
| T240    | AC61-60505A   | SPRING-REC S/W;-,-ES,SUS304 WPB,PI0.29,PI3.5,-    |                 |
| T300    | AC96-10011L   | ASSY-CYLINDER;CX5-S2P/DLC,-                       | 2 HEAD ONLY     |
|         | AC96-10474W   | ASSY-CYLINDER;-,-CX5-D4P/F/DLC                    | 4 HEAD ONLY     |
| T302    | AC31-12001M   | MOTOR-CYLINDER;E20XL03,-,-                        |                 |
| T303    | AC33-12004S   | HEAD-BRUSH(ASSY);SECC20/20+CARBON,-,-,-,-         |                 |
| T309    | AC73-12001A   | RETRINER-RUBBER(ASSY);SECC+SILICON,-,-,-          |                 |

6-3 Mechanical Parts (Bottom Side)



| Loc. No | Part No       | Description and Specification                      | Remark |
|---------|---------------|----------------------------------------------------|--------|
| 902     | AC60-10051A   | SCREW-TAPPING;BH,-,-,M3,L8,FZY                     |        |
| 918     | AC60-10006A   | SCREW-MACHINE;BH,+I90,M2.6,L7,ZPC,SWRCH18A,-       |        |
| 922     | 67008-130-171 | SCREW PH;+M3X3 FE FZY                              |        |
| 951     | AC60-30025A   | WASHER-SLIT;-ID2.5,OD5.0,T0.5,POLY SLIDE,          |        |
| 952     | AC60-30018A   | WASHER-PLAIN;PLAIN,M3.2,D6,T0.5,POLYSLIDER,        |        |
| 956     | AC60-30007A   | WASHER-SLIT;PLAIN,ID2.5,OD7,T0.5,SPC1,-,-          |        |
| 958     | AC60-30028A   | WASHER-SLIT;-D2.5,D9.0,T0.5,NUMIRROR,-,-           |        |
| B251    | AC66-80001A   | SILDER- MAIN;PBT2002K,T12.4,L206.2,NAT,DX-5        |        |
| B252    | AC66-20019A   | GEAR-LOADING L ASSY;-,-,-,PACKAGE,-,X-5,-          |        |
| B253    | AC66-20069A   | GEAR LOADING R;-,-,-,-,X5,-                        |        |
| B254    | AC61-60115A   | SPRING-BRAKE CAPSTAN;ES,SUS304WPB,PI0.4,D22,L16.1( |        |
| B255    | AC66-20004A   | GEAR-MASTER;POM (M90-44),M 1,Z 60,SP,-,X-5         |        |
| B256    | AC31-12001R   | MOTOR-D/D CAPSTAN;DMVCMC06A,-                      |        |
| B257    | AC66-62008A   | BELT-CAPSTAN;5CM-70 FR,W2 T2 L88.6,-,-,-,-,        |        |
| B258    | AC66-20066A   | CLUTCH-ASSY;-,-,-,-,X5,-                           |        |
| B259    | AC66-32185A   | LEVER-SLIDER PINCH;PBT,T4,NAT,-,-,-                |        |
| B260    | AC66-20016A   | GEAR- WORM WHEEL;POM SW-01,M0.55/M1,Z57/Z10,GEA    |        |
| B261    | AC66-30011A   | LEVER- SHIFT;PBT2002K,T10.9,L35,-,-,-              |        |
| B262    | AC66-30012A   | LEVER- IDELR CHANGE;PBT330,T3.3,L50,-,W6.0,-       |        |
| B263    | AC61-60111A   | SPRING-LEVER SHIFT;TS,SWPB,PI0.7,D5.5,L13.8(OD6.9  |        |
| B264    | AC59-90001A   | UNIT-LOADING ASSY;X-5,-,-                          |        |
| B265    | 66823-0060-00 | MOTOR-LOADING ASSY;POM+RF370C X-5                  |        |
| B266    | AC66-20039A   | GEAR- WORM LO;PBT 2002K,-,-,-,D4.5,3,-             |        |
| B267    | AC61-20224A   | HOLDER SHAFT;POM M90-44,T1.25,NAT,PI5XH5.5,        |        |
| B268    | AC66-30149A   | BRAKE CAPSTAN-ASSY;POM,-,-,-,X5,-                  |        |

## 6-4 Housing Assembly



| Loc. No | Part No       | Description and Specification                      | Remark |
|---------|---------------|----------------------------------------------------|--------|
| 902     | AC60-10051A   | SCREW-TAPPING;BH,-,-,M3,L8,FZY                     |        |
| 914     | AC60-10067A   | SCREW-TAPTITE;PWH,+,-,M3,L8,MFZN2-C,SWCH1018       |        |
| H500    | AC61-82014D   | HOUSING-ASSY;-X7FL26280A,230X130X60,-,X-7          |        |
| H510    | AC61-10006A   | CHASSIS- UPPER;SECC 20/20,-,T1.0,BLK,-,X5,-        |        |
| H520    | AC61-20932B   | HOLDER-CASSETTE ASSY;-X5FL06080A,-,-,X-7(CODO)     |        |
| H521    | AC61-20922B   | HOLDER-CASSETTE;-SECC T1.2,-,NAT,-,X-7(CODO)       |        |
| H522    | AC66-30018A   | LEVER-LOCK R;SECC 20/20,T1.2,L44,W32,-,-           |        |
| H524    | AC61-60121A   | SPRING-LEVER LOCK;ES,SUS304 WPB,PI0.2,D2.6,L9.9(   |        |
| H526    | AC66-30019A   | LEVER-KEY CASSETTE;LUCEL N109-LD,T2.5,L20,W15.2,-  |        |
| H530    | 62203-0105-00 | CHASSIS-SIDE L(ASSY);ABS X5FL0505A X-5             |        |
| H531    | AC61-10004A   | CHASSIS- SIDE L;ABS HF-380,-,T10,BLK,-,X5,BLK      |        |
| H532    | AC66-30004A   | LEVER- LIGHT SHUTTER;LUCEL N109-LD,T2.5,L61.7,BLK, |        |
| H533    | AC61-60142A   | SPRING- LIGHT;ES,SUS304WPB,PI0.2,L11.4(OD3.7       |        |
| H535    | AC66-30017A   | LEVER- DOOR;LUCELN109-LD,T5,L74.3,W21.1,-,         |        |
| H540    | 62203-0104-00 | CHASSIS-SIDE R(ASSY);ABS X5FL0505A X-5             |        |
| H541    | AC61-10003A   | CHASSIS- SIDE R;ABS HF-380,-,T10,BLK,-,X5,BLK      |        |
| H542    | AC66-80008A   | SLIDER DAMPER;LUCEL N109-LD,T4,L87,-,-,-           |        |
| H543    | AC61-60120A   | SPRING-SLIDE DAMPER;ES,SUS 304WPB,PI0.4,D3.8,L25(O |        |
| H544    | AC66-30016A   | LEVER- LID OPENER;LUCEL N109-LD,T5.0,L34.7,W16.6   |        |
| H545    | AC61-60123A   | SPRING-LID OPENER;TS,SWPB,PI0.55,D8.9,L15(OD10),   |        |
| H550    | 61403-0073-00 | SHAFT-ARM(ASSY);SUM24L X5FL0405A X-5               |        |

## MEMO

## 7. Electrical Parts List

| Loc.No                  | Part No        | Desc and Spec                                    | Remark    | Loc.No                            | Part No       | Desc and Spec                                    | Remark    |
|-------------------------|----------------|--------------------------------------------------|-----------|-----------------------------------|---------------|--------------------------------------------------|-----------|
| 601                     | DO NOT ORDER   | ASSY-MAIN                                        | (S.N.A)   | L1S02                             | △ A1151-0042  | COIL-LINE FILTER;BSF-2120Z 25MH 3.2OHM           |           |
| <b>SMPS/POWER PARTS</b> |                |                                                  |           | L1S05                             | AC27-92001M   | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-              | SME LOCAL |
| C1P02                   | 2301-000383    | C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM          |           | L1S30                             | AC27-12001N   | COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-         | SME LOCAL |
| C1P03                   | 2401-001954    | C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5                | SME LOCAL | L1S31                             | AC27-12001N   | COIL-CHOKE;10UH-15%,RA,K-30,Q80,150KHZ,-         | SME LOCAL |
| C1P04                   | 2401-001975    | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | L1S32                             | AC27-92001M   | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-              | SME LOCAL |
| C1P05                   | 2401-001511    | C-AL;47UF,20%,16V,GP,-,6X7,5                     | SME LOCAL | L1S33                             | AC27-92001M   | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-              | SME LOCAL |
| C1P06                   | 2401-001915    | C-AL;1UF,20%,50V,GP,TP,3X5,1MM                   |           | L1S34                             | AC27-92001M   | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-              | SME LOCAL |
| C1P09                   | 2401-001912    | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | PT1S01                            | △ AC26-20120C | TRANS-SWITCHING;-100/230V,UL/CSA,EE28*21*11,1    |           |
| C1P10                   | 2202-000797    | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | Q1P01                             | 0501-000610   | TR-SMALL SIGNAL;KSA928A-Y.PNP,1W,TO-92L,TP,160   | SME LOCAL |
| C1S03                   | △ 2305-001021  | C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.5,       |           | Q1P02                             | 0504-000116   | TR-DIGITAL;KSR1001,NPN,300MW,4.7K-4.7K,TO        | SME LOCAL |
| C1S04                   | △ 2305-001021  | C-FILM,MPEF;100NF,20%,275V,TP,17.5X7X13.5,       |           | Q1P03                             | 0501-000610   | TR-SMALL SIGNAL;KSA928A-Y.PNP,1W,TO-92L,TP,160   | SME LOCAL |
| C1S05                   | 2201-000808    | C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,TP,12X7.5,7    |           | Q1P04                             | 0504-000118   | TR-DIGITAL;KSR1003,NPN,300MW,22K-22K,TO-9        | SME LOCAL |
| C1S06                   | 2201-000934    | C-CERAMIC,DISC;3.3NF,20%,400V,Y5P,TP,18X8,10     |           | Q1P05                             | 0501-000616   | TR-SMALL SIGNAL;KSC2328A-Y.NPN,1W,TO-92L,TP      | SME LOCAL |
| C1S08                   | 2401-001957    | C-AL;47.0UF,20%,400V,GP,TP,18X25,7.              | SME LOCAL | Q1P06                             | 0501-000616   | TR-SMALL SIGNAL;KSC2328A-Y.NPN,1W,TO-92L,TP      | SME LOCAL |
| C1S09                   | 2201-000934    | C-CERAMIC,DISC;3.3NF,20%,400V,Y5P,TP,18X8,10     |           | Q1P07                             | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL |
| C1S10                   | 2201-000915    | C-CERAMIC,DISC;100PF,10%,1KV,Y5P,TP,6X5,5        | SME LOCAL | Q1S01                             | 0502-001050   | TR-POWER;2SC4517A,NPN,30W,TO-220,ST,10-          |           |
| C1S16                   | 2201-000796    | C-CERAMIC,DISC;10NF,10%,50V,Y5P,TP,6.5X3,5       |           | Q1S02                             | 0501-000442   | TR-SMALL SIGNAL;KTC3203-Y,NPN,400MW,TO-92,TP,1   |           |
| C1S20                   | 3811-000389    | WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-   | SME LOCAL | R1P02                             | 2004-001096   | R-METAL;560OHM,5%,1/4W,AA,TP,2.4X6.4MM           | SME LOCAL |
| C1S21                   | 2401-000905    | C-AL;22UF,20%,16V,BP,-,6X11,2.5MM                |           | R1P03                             | 2001-000273   | R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| C1S22                   | 2301-000361    | C-FILM,PEF;1.2NF,10%,50V,TP,-,5MM                |           | R1P04                             | 2001-000611   | R-CARBON;3.9KOHM,5%,1/4W,AA,TP,2.4X6.4M          |           |
| C1S23                   | 2301-000442    | C-FILM,PEF;4.7NF,10%,50V,TP,5.5X7X3MM,5MM        |           | R1P05                             | 2001-000449   | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| C1S30                   | 2401-000385    | C-AL;10UF,20%,100V,GP,-,6.3X11,2.5M              | SME LOCAL | R1P06                             | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           | SME LOCAL |
| C1S31                   | 2401-001134    | C-AL;330UF,20%,35V,WT,TP,10X16,5MM               | SME LOCAL | R1P07                             | 2001-000221   | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| C1S32                   | 2401-001998    | C-AL;1000UF,20%,25V,GP,TP,10X20,5MM              |           | R1P09                             | 2004-000571   | R-METAL;220OHM,5%,1/4W,AA,TP,2.4X6.4MM           | SME LOCAL |
| C1S33                   | 2401-000306    | C-AL;100UF,20%,25V,GP,TP,6.3X11MM,2              |           | R1P10                             | 2001-000449   | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| C1S34                   | 2401-000118    | C-AL;1000UF,20%,10V,GP,TP,10X12.5,5              |           | R1S02                             | 3811-000389   | WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-   | SME LOCAL |
| C1S35                   | 2401-000306    | C-AL;100UF,20%,25V,GP,TP,6.3X11MM,2              |           | R1S03                             | 2001-000305   | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           |
| C1S36                   | 2401-001583    | C-AL;47UF,20%,50V,WT,TP,6.3X11,2.5M              |           | R1S06                             | 2006-000273   | R-CEMENT;27KOHM,5%,2W,CA,BK,6.4X27X6.4M          |           |
| C1S37                   | 2401-001374    | C-AL;470UF,20%,16V,WT,TP,10X12.5,2.              | SME LOCAL | R1S07                             | 2001-000003   | R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| C1S38                   | 2301-000129    | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM        | SME LOCAL | R1S11                             | 2006-000262   | R-CEMENT;2.7OHM,10%,2W,CB,ST,7.5X11X20.          | SME LOCAL |
| C1S39                   | 2301-000383    | C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM          |           | R1S12                             | 2001-000305   | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           |
| CN1S1                   | 3711-000178    | CONNECTOR-HEADER;1WALL,2P,1R,3.96MM,STRAIGH      | SME LOCAL | R1S13                             | 2001-000305   | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           |
| D1P01                   | 0402-000127    | DIODE-RECTIFIER;1N4002,100V,1A,DO-41             | SME LOCAL | R1S14                             | 2001-000305   | R-CARBON;110KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           |
| D1P02                   | 0402-000127    | DIODE-RECTIFIER;1N4002,100V,1A,DO-41             | SME LOCAL | R1S15                             | 3811-000389   | WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-   | SME LOCAL |
| D1P03                   | 0402-000127    | DIODE-RECTIFIER;1N4002,100V,1A,DO-41             | SME LOCAL | R1S16                             | 2003-000264   | R-METAL OXIDE;300OHM,5%,1W,AD,TP,4.3X12MM        |           |
| D1P06                   | 0401-000101    | DIODE-SWITCHING;1N4148,100V,200MA,500MW          | SME LOCAL | R1S19                             | 2001-000003   | R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| D1P20                   | 0402-000127    | DIODE-RECTIFIER;1N4002,100V,1A,DO-41             | SME LOCAL | R1S21                             | 2003-000119   | R-METAL OXIDE;0.68OHM,5%,2W,AE,TP,6X16MM         |           |
| D1S01                   | △ 0402-0001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR               |           | R1S30                             | 2001-000515   | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| D1S02                   | △ 0402-0001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR               |           | R1S31                             | 2001-000221   | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| D1S03                   | △ 0402-0001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR               |           | R1S32                             | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           | SME LOCAL |
| D1S04                   | △ 0402-0001009 | DIODE-RECTIFIER;1SR139,600V,1A,MSR               |           | R1S33                             | 2004-000869   | R-METAL;3KOHM,1%,1/8W,AA,TP,1.8X3.2MM            |           |
| D1S05                   | 0402-000378    | DIODE-RECTIFIER;EG01C,1000V,500MA,DO-41          | SME LOCAL | R1S34                             | 2004-000459   | R-METAL;2.2KOHM,1%,1/8W,AA,TP,1.8X3.2MM          |           |
| D1S07                   | 0402-001013    | DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41      |           | R1S35                             | 3811-000389   | WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-   | SME LOCAL |
| D1S08                   | 0401-000101    | DIODE-SWITCHING;1N4148,100V,200MA,500MW          | SME LOCAL | VA1S01                            | △ 1405-000186 | VARIATOR;470V,4500A,17X12MM,TP                   | SME LOCAL |
| D1S30                   | 0402-001013    | DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41      |           | VA1S02                            | △ 1405-000186 | VARIATOR;470V,4500A,17X12MM,TP                   | SME LOCAL |
| D1S31                   | 0402-001013    | DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41      |           | ZD1P02                            | 0403-000557   | DIODE-ZENER;MTZ5.1C,5.1V,5.09-5.37V,500MW,       |           |
| D1S34                   | 0402-001013    | DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41      |           | ZD1S30                            | 0403-000571   | DIODE-ZENER;UZP43B,43V,40-46V,1W,DO-41,TP        |           |
| D1S35                   | 0402-001013    | DIODE-RECTIFIER;1SR153-400,400V,800MA,DO-41      |           | <b>SYSTEM CONTROL/SERVO PARTS</b> |               |                                                  |           |
| D1S41                   | 0402-001069    | DIODE-RECTIFIER;RL10Z,200V,2A,DO,TP              |           | C601                              | 2203-002188   | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| D1S43                   | 0402-001069    | DIODE-RECTIFIER;RL10Z,200V,2A,DO,TP              |           | C602                              | 2203-002188   | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| F1S01                   | △ A3065-0157   | FUSE;FST 250V 1.6A 20MM SEMKO S505 C             |           | C603                              | 2203-001557   | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| IC1P01                  | AC14-12001E    | IC;KA7809,-,-                                    | SME LOCAL | C604                              | 2203-002188   | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| IC1S2                   | △ B4161-0030   | PHOTO-COUPLER;PS2561-1 ST DIP                    |           | C605                              | 2203-001577   | C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP         | SME LOCAL |
| IC1S3                   | △ AC14-12006D  | IC;KA431Z,TO-92,TAPING                           | SME LOCAL | C606                              | 2202-000797   | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL |
| L1S01                   | △ AC29-30050A  | FILTER-LINE NOISE;- ,400UH,- ,250V,-             |           | C607                              | 2203-002188   | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |

## Electrical Parts List

| Loc.No | Part No     | Desc and Spec                                    | Remark    |
|--------|-------------|--------------------------------------------------|-----------|
| C608   | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP     | SME LOCAL |
| C609   | 2203-001679 | C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2012,2    |           |
| C610   | 2203-001679 | C-CERAMIC,CHIP;68NF,+80-20%,25V,Y5V,TP,2012,2    |           |
| C6101  | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           |
| C6102  | 2203-000239 | C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,2012,-        | SME LOCAL |
| C6103  | 2203-001620 | C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C6104  | 2203-001620 | C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C6105  | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| C6106  | 2301-000392 | C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,5        |           |
| C6107  | 2203-000818 | C-CERAMIC,CHIP;33PF,5%,50V,NPO,TP,2012,-         |           |
| C611   | 2203-000533 | C-CERAMIC,CHIP;2.7NF,10%,50V,X7R,TP,2012,-       | SME LOCAL |
| C6114  | 2201-000799 | C-CERAMIC,DISC;12PF,5%,50V,CH,TP,5X3,5           |           |
| C6116  | 2203-001612 | C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,2012,2MM   |           |
| C6117  | 2203-001612 | C-CERAMIC,CHIP MELF;22PF,5%,50V,SL,TP,2012,2MM   |           |
| C6119  | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL |
| C612   | 2203-001577 | C-CERAMIC,CHIP MELF;150PF,10%,50V,Y5E,TP,2012    | SME LOCAL |
| C6120  | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| C6122  | 2401-001952 | C-AL;4.7UF,20%,50V,-,TP,6.3X7,5                  | SME LOCAL |
| C6123  | 2401-001978 | C-AL;47UF,20%,25V,GP,TP,6.3X5,5                  |           |
| C6124  | 2401-001325 | C-AL;470NF,20%,50V,GP,TP,3X5,5                   |           |
| C6126  | 2401-000419 | C-AL;10UF,20%,16V,GP,-,4X7,5                     | SME LOCAL |
| C613   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| C614   | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| C615   | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| C616   | 2203-001591 | C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2012      | SME LOCAL |
| C617   | 2203-001591 | C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2012      | SME LOCAL |
| C618   | 2203-001702 | C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-        | SME LOCAL |
| C619   | 2203-001696 | C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012     | SME LOCAL |
| C620   | 2203-001696 | C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012     | SME LOCAL |
| C621   | 2203-000260 | C-CERAMIC,CHIP;10NF;10%,50V,X7R,TP,2012,-        | SME LOCAL |
| C622   | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           |
| C623   | 2203-001580 | C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C624   | 2203-001580 | C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C625   | 2203-001580 | C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C626   | 2203-001580 | C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| C627   | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           |
| C628   | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           |
| C629   | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| C630   | 2301-000129 | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM        | SME LOCAL |
| C631   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| C632   | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5                     | SME LOCAL |
| C633   | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                   | SME LOCAL |
| C634   | 2401-000208 | C-AL;100NF,+80-20%,5.5V,GP,12.3MM,5              |           |
| C635   | 2401-000199 | C-AL;1000UF,20%,6.3V,GP,TP,10X12.5,              |           |
| C636   | 2401-001978 | C-AL;47UF,20%,25V,GP,TP,6.3X5,5                  |           |
| C637   | 2401-001978 | C-AL;47UF,20%,25V,GP,TP,6.3X5,5                  |           |
| C638   | 2401-001915 | C-AL;1UF,20%,50V,GP,TP,3X5,1MM                   |           |
| C639   | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                   | SME LOCAL |
| C640   | 2401-001978 | C-AL;47UF,20%,25V,GP,TP,6.3X5,5                  |           |
| C641   | 2401-000753 | C-AL;220NF,20%,50V,GP,TP,3X5,5                   |           |
| C642   | 2401-000918 | C-AL;22UF,20%,16V,GP,-,6.3X7,5                   | SME LOCAL |
| C643   | 2401-001036 | C-AL;33UF,20%,16V,GP,TP,6.3X5,5                  | SME LOCAL |
| C644   | A1104-0611  | C-ELEC;CE 04 -40/85 16V T 100-M SRE 3.5X5 10UF   | SME LOCAL |
| C645   | 2401-001915 | C-AL;1UF,20%,50V,GP,TP,3X5,1MM                   |           |
| C646   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| C647   | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| C650   | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| C651   | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5                     | SME LOCAL |
| C652   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| C653   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |

| Loc.No | Part No     | Desc and Spec                                  | Remark    |
|--------|-------------|------------------------------------------------|-----------|
| C654   | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-  | SME LOCAL |
| C655   | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-  | SME LOCAL |
| C660   | 2203-001702 | C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-      | SME LOCAL |
| C661   | 2203-001702 | C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-      | SME LOCAL |
| C663   | 2203-000979 | C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012,-,TP   | SME LOCAL |
| C681   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,  | SME LOCAL |
| C682   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,  | SME LOCAL |
| C698   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,  | SME LOCAL |
| CN601  | 3710-000546 | CONNECTOR-SOCKET;20P,1R,1.5MM,ANGLE,SN         |           |
| CN602  | 3711-002445 | CONNECTOR-HEADER;BOX,2P,2R,1.5MM,STRAIGHT      | SME LOCAL |
| CN603  | 3711-003105 | CONNECTOR-HEADER;BOX,10P,2R,2.0MM,STRAIGHT     | SME LOCAL |
| CN604  | 3711-002444 | CONNECTOR-HEADER;BOX,6P,2R,2.0MM,STRAIGHT      | SME LOCAL |
| D601   | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41           | SME LOCAL |
| D602   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D603   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D604   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D605   | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41           | SME LOCAL |
| D606   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D607   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D608   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D609   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D610   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6101  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6102  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6103  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6104  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6105  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D6106  | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| D611   | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS    | SME LOCAL |
| IC601  | AC09-10452X | IC-MCU;HD6433977-RA10F;1024,8,H_ONECH          |           |
| IC602  | AC14-12003K | IC;KA8301(N.M.),-                              | SME LOCAL |
| IC603  | 1201-000230 | IC-OP AMP;6324,DIP,14P,-,QUAD,15/100MV,P       |           |
| IC604  | AC14-12006C | IC;KA7533,DIP,-                                | SME LOCAL |
| IC605  | 1103-001020 | IC-EEPROM;24LC04,4KX8BIT,DIP,8P,300ML,-        |           |
| J805   | 2007-001589 | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| L601   | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-         | SME LOCAL |
| L602   | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-         | SME LOCAL |
| L603   | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-         | SME LOCAL |
| L604   | 2701-000131 | INDUCTOR-AXIAL;15UH,5%,2.4X3.4MM               | SME LOCAL |
| L6101  | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-         | SME LOCAL |
| L6103  | 2701-000117 | INDUCTOR-AXIAL;10UH,5%,2.4X3.4MM               | SME LOCAL |
| L620   | 3301-000297 | CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400        | SME LOCAL |
| L621   | 3301-000297 | CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400        | SME LOCAL |
| LD601  | 0601-000495 | LED-IR;ROUND,3MM,150MW,6V,950NM,BK             | SME LOCAL |
| PT601  | 0604-000188 | PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR              | SME LOCAL |
| PT602  | 0604-000188 | PHOTO-INTERRUPTER;TR,-,-,DIP-4,TR              | SME LOCAL |
| Q601   | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q602   | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q603   | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q604   | 0501-000303 | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-     | SME LOCAL |
| Q605   | 0504-000203 | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9      | SME LOCAL |
| Q606   | 0504-000203 | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9      | SME LOCAL |
| Q607   | 0504-000142 | TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO      | SME LOCAL |
| Q608   | 0504-000203 | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9      | SME LOCAL |
| Q609   | AC14-12001G | IC;KA78L05,T,-                                 |           |
| Q6101  | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q6102  | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q6106  | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP      | SME LOCAL |
| Q6108  | 0501-000303 | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120 | SME LOCAL |
| R601   | 2001-000832 | R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM        | SME LOCAL |

| Loc.No | Part No       | Desc and Spec                           | Remark    | Loc.No | Part No       | Desc and Spec                               | Remark    |
|--------|---------------|-----------------------------------------|-----------|--------|---------------|---------------------------------------------|-----------|
| R602   | 2007-000804   | R-CHIP;36KOHM,5%,1/10W,DA,TP,2012       | SME LOCAL | R641   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R604   | 2001-000010   | R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R644   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R606   | 2001-000568   | R-CARBON;270HM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R648   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R607   | 2007-001587   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,TP,2012    | SME LOCAL | R649   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R608   | 2007-001637   | R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R651   | 2001-000786   | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R610   | 2004-000218   | R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R652   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6100  | 2001-000613   | R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | R653   | 61048-177-563 | R-CARBON;RD 1/8 T 563-J                     | SME LOCAL |
| R6101  | 2007-001629   | R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R654   | 61048-177-563 | R-CARBON;RD 1/8 T 563-J                     | SME LOCAL |
| R6102  | 2007-001497   | R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R655   | 2007-001557   | R-CHIP,MELF;270HM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R6103  | 2007-001623   | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R656   | 2001-000605   | R-CARBON;3.6KOHM,5%,1/8W,AA,TP,1.8X3.2M     | SME LOCAL |
| R6104  | 2001-000773   | R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | R657   | 2007-001596   | R-CHIP,MELF;16KOHM,5%,1/8W,DB,BK,2012       | SME LOCAL |
| R6105  | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R658   | 2007-001568   | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012       | SME LOCAL |
| R6106  | 2007-001586   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | R659   | 2007-001596   | R-CHIP,MELF;16KOHM,5%,1/8W,DB,BK,2012       | SME LOCAL |
| R6107  | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | R660   | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R6109  | 2001-000241   | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | R661   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6110  | 2007-001503   | R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R662   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6111  | 2007-001497   | R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R663   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6112  | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R664   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6113  | 2001-000660   | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R665   | 2001-000577   | R-CARBON;2KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6114  | 2001-000734   | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | R666   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6115  | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | R667   | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R6116  | 2007-001666   | R-CHIP,MELF;91KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R668   | 2007-001557   | R-CHIP,MELF;270HM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R6117  | 2001-000850   | R-CARBON;560KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | R669   | 2007-001623   | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012       | SME LOCAL |
| R6119  | 2007-001486   | R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R670   | 2001-000435   | R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R612   | 2004-000218   | R-METAL;10KOHM,1%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R671   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R6120  | 2007-001586   | R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | R672   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R6121  | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R673   | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R6122  | 2007-001623   | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R674   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6123  | 2007-001503   | R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R675   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R6124  | 2001-000633   | R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R676   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6125  | 2007-001540   | R-CHIP,MELF;30KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R677   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6129  | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R678   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6131  | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R679   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6132  | 2001-000534   | R-CARBON;240OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R681   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R6133  | 2001-000515   | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R682   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R6134  | 2007-001486   | R-CHIP,MELF;56KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R683   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R614   | 2007-001572   | R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R684   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R615   | 2007-001572   | R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R685   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R616   | 2001-000832   | R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R686   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R617   | 2007-001623   | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R687   | 2007-001586   | R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R618   | 2007-001623   | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R688   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R619   | 2007-001557   | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012   | SME LOCAL | R689   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R620   | 2001-000832   | R-CARBON;510OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R690   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R621   | 61048-177-563 | R-CARBON;RD 1/8 T 563-J                 | SME LOCAL | R691   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R624   | 2007-001627   | R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R692   | 2001-000837   | R-CARBON;51KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R625   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R693   | 2001-000221   | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2M     | SME LOCAL |
| R626   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | R694   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R627   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | R695   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM     | SME LOCAL |
| R628   | 2007-001572   | R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R696   | 2001-000734   | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M     | SME LOCAL |
| R629   | 2007-001572   | R-CHIP,MELF;220KOHM,5%,1/8W,DB,BK,2012  | SME LOCAL | R697   | 2003-000259   | R-METAL OXIDE;3.9OHM,5%,2W,AE,TP,6X16MM     | SME LOCAL |
| R630   | 2001-000435   | R-CARBON;1MOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | R698   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R631   | 2007-001591   | R-CHIP,MELF;18KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | RS601  | 3409-000176   | SWITCH-DETECTOR;30VDC,100MA,SPST,-          | SME LOCAL |
| R632   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | S601   | 0603-000112   | PHOTO-TR;NPN,35V,6V,50MA,75MW,-             | SME LOCAL |
| R633   | 2001-000802   | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M | SME LOCAL | S602   | 0603-000112   | PHOTO-TR;NPN,35V,6V,50MA,75MW,-             | SME LOCAL |
| R634   | 2007-001612   | R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012   | SME LOCAL | SW601  | AC34-22001E   | SWITCH-PROGRAM;MXS00281MLB0,-,-,-,-,-,-,-   | SME LOCAL |
| R635   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012    | SME LOCAL | W144   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM      | SME LOCAL |
| R636   | 2001-000281   | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM | SME LOCAL | XT601  | 2801-003293   | CRYSTAL-UNIT;10MHZ,50PPM,28-AAA,16PF,500HM, | SME LOCAL |
| R637   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | XT602  | 64539-021-009 | CRYSTAL;32.768KHZ                           | SME LOCAL |
| R638   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL | XT6102 | 2801-003311   | CRYSTAL-UNIT;17.734475MHZ,50PPM,28-AAA,16PF | SME LOCAL |
| R640   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM  | SME LOCAL |        |               |                                             |           |

## Electrical Parts List

| Loc.No                   | Part No     | Desc and Spec                                    | Remark    | Loc.No      | Part No     | Desc and Spec                                     | Remark    |
|--------------------------|-------------|--------------------------------------------------|-----------|-------------|-------------|---------------------------------------------------|-----------|
| <b>AUDIO/VIDEO PARTS</b> |             |                                                  |           | C367        | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-    | SME LOCAL |
| C305                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C368        | 2203-000979 | C-CERAMIC,CHIP;47NF,10%,50V,X7R,2012,-,TP         | SME LOCAL |
| C306                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C369        | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                 | SME LOCAL |
| C307                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C370        | B1102-0113  | C-FILM;CQ 922 P 100V 473-J CQ298PVT473J J         | SME LOCAL |
| C308                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C371        | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,-  | SME LOCAL |
| C309                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C373        | 2301-000439 | C-FILM,PEF;3NF,5%,50V,TP,5.5X7X3MM,5MM            |           |
| C310                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C374        | 2202-000781 | C-CERAMIC,MLC-AXIAL;100PF,10%,50V,Y5P,TP,3.5X19,- | SME LOCAL |
| C311                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C380        | 2401-000419 | C-AL;10UF,20%,16V,GP,-,4X7,5                      | SME LOCAL |
| C312                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A01       | 2401-001893 | C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5                | SME LOCAL |
| C313                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A02       | 2301-000392 | C-FILM,PEF;15NF,5%,50V,TP (AUDIO DUB. OPT.)       |           |
| C314                     | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | B1102-0113  |             | C-FILM;CQ922 P 100V 473-J (NO AUDIO DUB. OPT.)    |           |
| C315                     | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-   | SME LOCAL | C3A03       | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5                      | SME LOCAL |
| C316                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A04       | 2301-000299 | C-FILM,PEF;6.8NF,5%,100V,TP,5.8X12.5MM,5M         |           |
| C317                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | C3A05       | 2301-000161 | C-FILM,PEF;12NF,5%,50V (AUDIO DUB. OPT.)          |           |
| C318                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | 2301-000264 |             | C-FILM,PEF;4.7NF,5%,50V (NO AUDIO DUB. OPT.)      |           |
| C319                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | C3A06       | 2301-000408 | C-FILM,PEF;2.7NF,5%,50V,TP,5.5X7X3MM,5MM          |           |
| C320                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A07       | 2301-000402 | C-FILM,PEF;1NF,5%,50V,TP,5X7X2.8MM,5MM            |           |
| C321                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A08       | 2401-001917 | C-AL;1UF,20%,50V,-,TP,5X7MM,5                     | SME LOCAL |
| C322                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A09       | 2401-003122 | C-AL;4.7UF,20%,50V,LL,TP,4X7,1.5                  |           |
| C323                     | 2203-001592 | C-CERAMIC,CHIP;1NF,5%,50V,X7R,TP,2012,2MM        |           | C3A10       | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                    | SME LOCAL |
| C324                     | B1102-0113  | C-FILM;CQ 922 P 100V 473-J CQ298PVT473J          | SME LOCAL | C3A11       | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                    | SME LOCAL |
| C325                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A12       | 2301-000383 | C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM           |           |
| C326                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | C3A14       | 2203-001105 | C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012,-        | SME LOCAL |
| C327                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A15       | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                 | SME LOCAL |
| C328                     | 2203-001620 | C-CERAMIC,CHIP MELF;27PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL | C3A16       | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                 | SME LOCAL |
| C329                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | C3A18       | 2202-000855 | C-CERAMIC,MLC-AXIAL;6.8NF,30%,16V,Y5R,TP,3.5X1.9  |           |
| C330                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | C3A19       | 2202-000856 | C-CERAMIC,MLC-AXIAL;8.2NF,30%,16V,Y5R,TP,3.5X1.9  | SME LOCAL |
| C331                     | 2401-000918 | C-AL;22UF,20%,16V,GP,-,6.3X7,5                   | SME LOCAL | C3A20       | 2301-000217 | C-FILM,PEF;220NF,5%,50V,TP,8.0X9.5X4.5X5,         |           |
| C332                     | 2203-001524 | C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-         |           | C3A21       | 2401-000918 | C-AL;22UF,20%,16V,GP,-,6.3X7,5                    | SME LOCAL |
| C333                     | 2203-000840 | C-CERAMIC,CHIP;390PF,5%,50V,NPO,TP,2012,-        | SME LOCAL | C3A22       | 2301-000217 | C-FILM,PEF;220NF,5%,50V,TP,8.0X9.5X4.5X5,         |           |
| C335                     | 2203-001580 | C-CERAMIC,CHIP MELF;15PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL | C3A23       | 2401-001169 | C-AL;33UF,20%,16V,GP,-,6.3X7,2.5MM                | SME LOCAL |
| C336                     | 2203-001606 | C-CERAMIC,CHIP MELF;220PF,10%,50V,Y5P,TP,2012    | SME LOCAL | C3A24       | 2301-000217 | C-FILM,PEF;220NF,5%,50V,TP,8.0X9.5X4.5X5,         |           |
| C337                     | 2203-000540 | C-CERAMIC,CHIP;200PF,5%,50V,NPO,TP,2012,-        | SME LOCAL | C3A25       | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5  | SME LOCAL |
| C338                     | 2203-001589 | C-CERAMIC,CHIP MELF;18PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL | C3A26       | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                  | SME LOCAL |
| C339                     | 2203-000239 | C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,2012,-        | SME LOCAL | C3A27       | 2401-002197 | C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM                  | SME LOCAL |
| C340                     | 2401-001965 | C-AL;470NF,20%,50V,-,BK,4X7MM,1.5MM              |           | C3A28       | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-    | SME LOCAL |
| C341                     | 2401-001917 | C-AL;1UF,20%,50V,-,TP,5X7MM,5                    | SME LOCAL | C3A29       | 2301-000383 | C-FILM,PEF;10NF,5%,50V,TP,6X7X3.2MM,5MM           |           |
| C342                     | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL | C3A30       | 2301-000392 | C-FILM,PEF;15NF,5%,50V,TP,6.5X8.5X3.2MM,5         |           |
| C343                     | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | C3S05       | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-    | SME LOCAL |
| C344                     | 2401-000419 | C-AL;10UF,20%,16V,GP,-,4X7,5                     | SME LOCAL | C3S07       | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5                      | SME LOCAL |
| C345                     | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL | C511        | 2401-001893 | C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5                | SME LOCAL |
| C346                     | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | C531        | 2401-002183 | C-AL;220UF,20%,16V,GP,TP,8X9,5MM                  |           |
| C347                     | 2401-000419 | C-AL;10UF,20%,16V,GP,-,4X7,5                     | SME LOCAL | C532        | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-    | SME LOCAL |
| C348                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | C5D01       | B1102-0113  | C-FILM;CQ 922 P 100V 473-J (AUDIO DUB. OPT.)      |           |
| C349                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | C5D02       | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5 (AUDIO DUB. OPT.)    |           |
| C350                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | C5D03       | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20% (AUDIO DUB. OPT.)     | SME LOCAL |
| C351                     | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-   | SME LOCAL | C5D04       | 2301-000264 | C-FILM,PEF;4.7NF,5%,50V,TP (AUDIO DUB. OPT.)      |           |
| C352                     | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | C5D05       | 2301-000383 | C-FILM,PEF;10NF,5%,50V,TP (AUDIO DUB. OPT.)       |           |
| C353                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | CN301       | 3708-000395 | CONNECTOR-FPC/FC/PIC;8P,1.25MM,STRAIGHT,SN        |           |
| C355                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | CN3A01      | 3708-001053 | CONNECTOR-FPC/FC/PIC;7P,1.25MM,STRAIGHT,SN        |           |
| C356                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | CN3A02      | 3711-000371 | CONNECTOR-HEADER;-2P,1R,2MM,STRAIGHT,-            | SME LOCAL |
| C357                     | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,-   | SME LOCAL | D301        | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS       | SME LOCAL |
| C358                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | FL3A01      | AC27-80100A | COIL-OSC;126QN-K5272YHC-K,-,AM                    |           |
| C359                     | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL | FLSD01      | AC27-82001C | COIL-BIAS OSC;B02,W(TOKO) (AUDIO DUB. OPT.)       |           |
| C360                     | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL | IC301       | 1204-001057 | IC-SIGNAL PROCESSOR;SS11511M,QFP,80P,-            |           |
| C361                     | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL | IC302       | AC14-12013F | IC-LINEAR;LA7416,DIP,BULK                         | SME LOCAL |
| C362                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | IC303       | 1209-001023 | IC-DELAY LINE;SS23377M,SOP;14P;225MIL,PLASTI      |           |
| C363                     | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           | L301        | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-            | SME LOCAL |
| C364                     | 2401-001912 | C-AL;1UF,20%,50V,GP,BK,5X11MM,2MM                | SME LOCAL | L303        | 2701-000206 | INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM                  | SME LOCAL |
| C366                     | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | L304        | 2701-000206 | INDUCTOR-AXIAL;56UH,5%,2.4X3.4MM                  | SME LOCAL |

| Loc.No | Part No       | Desc and Spec                                    | Remark    | Loc.No          | Part No     | Desc and Spec                                    | Remark    |
|--------|---------------|--------------------------------------------------|-----------|-----------------|-------------|--------------------------------------------------|-----------|
| L308   | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | R341            | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           |
| L3A02  | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | R350            | 2007-001629 | R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| L3A03  | 2702-000120   | INDUCTOR-RADIAL;15MH,5%,6.2X7.4MM                | SME LOCAL | R351            | 2007-001616 | R-CHIP,MELF;120KOHM,5%,1/8W,DB,BK,2012           |           |
| L3A04  | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | R399            | 2007-001536 | R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012            |           |
| L501   | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | R3A02           | 2001-000405 | R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| L503   | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | R3A03           | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| L5D01  | AC27-92001B   | COIL-PEAKING AXIAL;BAL04ST101K (AUDIO DUB. OPT.) | SME LOCAL | R3A04           | 2007-001612 | R-CHIP,MELF;12KOHM,5%,1/8W (AUDIO DUB. OPT.)     | SME LOCAL |
| Q302   | 0501-000303   | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120   | SME LOCAL |                 | 2007-000267 | R-CHIP;1.8KOHM,5%,1/10W,DA (NO AUDIO DUB. OPT.)  |           |
| Q303   | 0501-000303   | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120   | SME LOCAL | R3A05           | 2007-001584 | R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| Q304   | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A06           | 2007-001584 | R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| Q306   | 0504-000203   | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL | R3A07           | 2001-000458 | R-CARBON;2.2OHM,5%,1/8W,AA,TP,1.8X3.2MM          |           |
| Q307   | 0504-000203   | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL | R3A08           | 2001-000290 | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| Q308   | 0504-000203   | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL | R3A09           | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| Q309   | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A10           | 2007-001633 | R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| Q310   | 0501-000303   | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120   | SME LOCAL | R3A11           | 2007-001534 | R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| Q312   | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A12           | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| Q3A01  | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A13           | 2001-000645 | R-CARBON;330KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| Q3A02  | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A14           | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| Q3A03  | 0501-000010   | TR-SMALL SIGNAL;KSC1008-Y,NPN,80V,60V,700MA,80   | SME LOCAL | R3A15           | 2007-001612 | R-CHIP,MELF;12KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| Q3A04  | 0501-000303   | TR-SMALL SIGNAL;KSA733-Y,PNP,250MW,TO-92,-,120   | SME LOCAL | R3A16           | 2007-001641 | R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012              | SME LOCAL |
| Q3A05  | 0501-000398   | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL | R3A17           | 2007-001497 | R-CHIP,MELF;5.6KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| Q3A06  | 0504-000203   | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL | R3A19           | 2001-000221 | R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| Q5D01  | 0501-000010   | TR-SMALL SIGNAL;KSC1008-Y,NPN (AUDIO DUB. OPT.)  | SME LOCAL | R3A20           | 2001-000786 | R-CARBON;7KOHM,5%,1/8W,AA,TP,1.8X3.2MM           | SME LOCAL |
| Q5D02  | 0504-000142   | TR-DIGITAL;KSR2001,PNP,300MW (AUDIO DUB. OPT.)   | SME LOCAL | R3A21           | 2007-001503 | R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| Q5D03  | 0504-000203   | TR-DIGITAL;KSR1004,NPN,300MW (AUDIO DUB. OPT.)   | SME LOCAL | R3A22           | 2007-001503 | R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| R301   | 2001-000302   | R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM           |           | R3A23           | 2007-001484 | R-CHIP,MELF;6.2KOHM,5%,1/8W,DB,BK,2012           |           |
| R302   | 2001-000302   | R-CARBON;10OHM,5%,1/8W,AA,TP,1.8X3.2MM           |           | R3A24           | 2001-000454 | R-CARBON;2.2MOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| R303   | 2007-001568   | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R3A25           | 2007-001482 | R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R304   | 2001-000522   | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL | R3A26           | 2007-001448 | R-CHIP,MELF;9.1KOHM,5%,1/8W,DB,BK,2012           |           |
| R305   | 2007-001629   | R-CHIP,MELF;1.8KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | R3A27           | 2007-001513 | R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R306   | 61048-177-563 | R-CARBON;RD 1/8 T 563-J                          |           | R3A28           | 2007-001623 | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| R307   | 2007-001627   | R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | R3A29           | 2007-001580 | R-CHIP,MELF;2.4KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R309   | 2007-001553   | R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012             | SME LOCAL | R3A30           | 2001-000613 | R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| R310   | 2007-001546   | R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | R3A31           | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL |
| R311   | 2007-001454   | R-CHIP,MELF;820OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R3A32           | 2001-000904 | R-CARBON;620OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |
| R312   | 2007-001553   | R-CHIP,MELF;2KOHM,5%,1/8W,DB,BK,2012             | SME LOCAL | R5D01           | 2001-000793 | R-CARBON;470OHM,5%,1/8W,AA (AUDIO DUB. OPT.)     | SME LOCAL |
| R313   | 2007-001513   | R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | R5D02           | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA (AUDIO DUB. OPT.)     | SME LOCAL |
| R314   | 2007-001557   | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R5D03           | 2001-000745 | R-CARBON;4.7OHM,5%,1/8W,AA (AUDIO DUB. OPT.)     | SME LOCAL |
| R315   | 2007-001546   | R-CHIP,MELF;3.9KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | XT301           | B1280-0169  | CRYSTAL;4.433619MHZ HC-49/U-S 15PPM SERIES       | SME LOCAL |
| R316   | 2007-001458   | R-CHIP,MELF;8.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | <b>IF PARTS</b> |             |                                                  |           |
| R317   | 2007-001534   | R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL | C401            | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| R318   | 2007-001534   | R-CHIP,MELF;33KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL | C402            | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| R319   | 2007-001521   | R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | C404            | 2202-000797 | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL |
| R320   | 2007-001637   | R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C409            | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| R321   | 2007-001521   | R-CHIP,MELF;390OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | C410            | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| R322   | 2001-000241   | R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL | C411            | 2301-000129 | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5.5MM        | SME LOCAL |
| R323   | 2007-001513   | R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C412            | 2203-001589 | C-CERAMIC,CHIP,MELF;18PF,5%,50V,SL,TP,2012,2MM   | SME LOCAL |
| R324   | 2007-001633   | R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C414            | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| R325   | 2007-001536   | R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | C415            | 2301-000415 | C-FILM,PEF;22NF,5%,50V,TP,6.5X10.5X4MM,5M        | SME LOCAL |
| R327   | 2007-001633   | R-CHIP,MELF;1.5KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C416            | 2401-002180 | C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM                | SME LOCAL |
| R328   | 2007-001637   | R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C417            | 2202-000205 | C-CERAMIC,MLC-AXIAL;22PF,5%,50V,SL,1.9X3.5,-,TP  | SME LOCAL |
| R329   | 2007-001584   | R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C418            | 2201-000837 | C-CERAMIC,DISC;39PF,5%,50V,CH,TP,5X3.5           | SME LOCAL |
| R331   | 2007-001584   | R-CHIP,MELF;2.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C419            | 2401-001954 | C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5                | SME LOCAL |
| R332   | 2007-001589   | R-CHIP,MELF;1KOHM,5%,1/8W,DB,BK,2012             | SME LOCAL | C421            | 2202-000787 | C-CERAMIC,MLC-AXIAL;10PF,5%,50V,Y5P,TP,3.5X19,-  | SME LOCAL |
| R333   | 2007-001458   | R-CHIP,MELF;8.2KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL | C423            | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| R335   | 2007-001616   | R-CHIP,MELF;120KOHM,5%,1/8W,DB,BK,2012           |           | C425            | 2401-002180 | C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM                | SME LOCAL |
| R337   | 2001-000472   | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM         |           | C426            | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| R338   | 2001-000734   | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL | C427            | 2401-001975 | C-AL;4.7UF,20%,16V,GP,TP,5X11MM,5                | SME LOCAL |
| R339   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM           | SME LOCAL | C428            | 2203-002188 | C-CERAMIC,CHIP;10NF,+80-20%,16V,Y5V,TP,2012,-    | SME LOCAL |
| R340   | 2001-000449   | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM         | SME LOCAL | C429            | 2201-000796 | C-CERAMIC,DISC;10NF,10%,50V,Y5P,TP,6.5X3.5       |           |

# Electrical Parts List

| Loc.No | Part No     | Desc and Spec                                 | Remark    |
|--------|-------------|-----------------------------------------------|-----------|
| C4A1   | 2401-000475 | C-AL;10UF,20%,50V,GP,-,5X11,2MM               |           |
| C4A2   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012, | SME LOCAL |
| C4A4   | 2301-000129 | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM     | SME LOCAL |
| C4A5   | 2301-000129 | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM     | SME LOCAL |
| C4A6   | 2301-000129 | C-FILM,PEF;100NF,5%,50V,TP,10X9X4.3X5,5MM     | SME LOCAL |
| C4A7   | 2401-001364 | C-AL;470UF,20%,16V,GP,TP,10X12MM,5M           |           |
| C4A8   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012, | SME LOCAL |
| C4A9   | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012, | SME LOCAL |
| D410   | 0402-000127 | DIODE-RECTIFIER;1N4002,100V,1A,DO-41          | SME LOCAL |
| FL401  | 2904-000268 | FILTER-SAW AV;38.9MHZ,SIP5P,ST,17.6DB,PAL-D/  |           |
| FL403  | 2903-000193 | FILTER-CERAMIC;BR,6.0MHz                      |           |
| FL404  | 2903-000185 | FILTER-CERAMIC;BP,5.5MHZ,+75KHZ,6DB,-,TP      | SME LOCAL |
| FL406  | B1243-0045  | FILTER-CERAMIC;SP 6.5M SFE6.5MB TAPG          |           |
| FL407  | 2903-000178 | FILTER-CERAMIC;BP,5.5MHZ,-,-,-,TP,-           | SME LOCAL |
| FL409  | 2903-000199 | FILTER-CERAMIC;TR,6.5MHZ,70KHZ,-,-,TP         | SME LOCAL |
| IC401  | AC14-12011Q | IC-LINEAR;TDA9800,DIP,NEG DEMOD               |           |
| IC4A1  | AC14-12003P | IC;LA7920,-,-                                 | SME LOCAL |
| IC4A2  | AC14-12003T | IC-L;KA33V TAPG,-,-                           | SME LOCAL |
| L401   | 2701-000145 | INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM               | SME LOCAL |
| L402   | 2701-000145 | INDUCTOR-AXIAL;1UH,5%,2.4X3.4MM               | SME LOCAL |
| L403   | 2701-000181 | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM              | SME LOCAL |
| L404   | 2701-000160 | INDUCTOR-AXIAL;22UH,5%,2.4X3.4MM              | SME LOCAL |
| L405   | 2702-000185 | INDUCTOR-RADIAL;8.2UH,5%,6X6.4MM              |           |
| L415   | 3301-000297 | CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400       | SME LOCAL |
| L4A1   | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-        | SME LOCAL |
| Q401   | 0501-000436 | TR-SMALL SIGNAL;KTC3197,NPN,625MW,TO-92,TP    | SME LOCAL |
| Q402   | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP     | SME LOCAL |
| Q4A1   | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP     | SME LOCAL |
| R402   | 2001-000802 | R-CARBON;5.6KOHM,5%,1/8W,AA,TP,1.8X3.2M       |           |
| R403   | 2007-001637 | R-CHIP,MELF;1.2KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R404   | 2007-001488 | R-CHIP,MELF;560OHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R405   | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R406   | 2001-000554 | R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R410   | 2001-000857 | R-CARBON;560OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R414   | 2007-001578 | R-CHIP,MELF;2.7KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R415   | 2001-000003 | R-CARBON;330OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R416   | 2001-000362 | R-CARBON;150OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R417   | 2001-000515 | R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R418   | 2001-000281 | R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| R419   | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M       | SME LOCAL |
| R420   | 2007-001505 | R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R421   | 2007-001536 | R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012         |           |
| R423   | 2007-001536 | R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012         |           |
| R424   | 2007-001574 | R-CHIP,MELF;20KOHM,5%,1/8W,DB,BK,2012         |           |
| R425   | 2007-001503 | R-CHIP,MELF;47KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R426   | 2007-001536 | R-CHIP,MELF;330OHM,5%,1/8W,DB,BK,2012         |           |
| R428   | 2007-001568 | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R429   | 2007-001568 | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R432   | 2001-000793 | R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM        | SME LOCAL |
| R435   | 2007-001513 | R-CHIP,MELF;4.7KOHM,5%,1/8W,DB,BK,2012        | SME LOCAL |
| R436   | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M       | SME LOCAL |
| R4A0   | 2001-000595 | R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M       | SME LOCAL |
| R4A1   | 2007-001623 | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R4A2   | 2001-000718 | R-CARBON;4.3KOHM,5%,1/8W,AA,TP,1.8X3.2M       |           |
| R4A3   | 2007-001568 | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R4A4   | 2007-001641 | R-CHIP,MELF;0OHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R4A5   | 2007-001555 | R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R4A6   | 2007-001555 | R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R4A7   | 2007-001555 | R-CHIP,MELF;27KOHM,5%,1/8W,DB,BK,2012         | SME LOCAL |
| R4A8   | 2001-000595 | R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M       | SME LOCAL |

| Loc.No           | Part No     | Desc and Spec                                    | Remark    |
|------------------|-------------|--------------------------------------------------|-----------|
| R4A9             | 2001-000595 | R-CARBON;3.3MOHM,5%,1/8W,AA,TP,1.8X3.2M          | SME LOCAL |
| R4B1             | 2007-001568 | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| R4B2             | 2007-001568 | R-CHIP,MELF;22KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| TL401            | AC26-12001A | TRANS-DET;9MM,0UH,BLK,8PF,77.9MHZ,M7T1,S         |           |
| U401             | AC40-30070P | TM-BLOCK;TCRK9600VD04A,PAL-G/K(HYPER),1          |           |
| VR401            | 2103-000307 | VR-SEMI;22KOHM,30%,1/10W,TOP                     | SME LOCAL |
| <b>VPS PARTS</b> |             |                                                  |           |
| C6P01            | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| C6P02            | 2202-000791 | C-CERAMIC,MLC-AXIAL;150PF,10%,50V,Y5P,TP,3.5X19, | SME LOCAL |
| C6P03            | 2401-001074 | C-AL;330NF,20%,50V,GP,TP,4X5,2.5MM               | SME LOCAL |
| C6P05            | 2203-001608 | C-CERAMIC,CHIP;22NF,+80-20%,50V,Y5V,TP,2012,-    |           |
| C6P06            | 2203-000802 | C-CERAMIC,CHIP;33NF,10%,50V,X7R,TP,2012,-,TP     |           |
| C6P07            | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| IC6P01           | 1204-000332 | IC-DECODER;SDA5649,DIP,14P,300MIL,PLASTIC        | SME LOCAL |
| R6P05            | 2007-001627 | R-CHIP,MELF;100KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R6P06            | 2007-001586 | R-CHIP,MELF;1MOHM,5%,1/8W,DB,BK,2012             | SME LOCAL |
| R6P07            | 2007-000225 | R-CHIP;1.2MOHM,5%,1/10W,DA,TP,2012               | SME LOCAL |
| R6P08            | 2007-001482 | R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R6P09            | 2007-000225 | R-CHIP;1.2MOHM,5%,1/10W,DA,TP,2012               | SME LOCAL |
| R6P10            | 2007-001482 | R-CHIP,MELF;6.8KOHM,5%,1/8W,DB,BK,2012           | SME LOCAL |
| R6P11            | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M          | SME LOCAL |
| R6P12            | 2007-001623 | R-CHIP,MELF;10KOHM,5%,1/8W,DB,BK,2012            | SME LOCAL |
| <b>I/O PARTS</b> |             |                                                  |           |
| C834             | 2203-001591 | C-CERAMIC,CHIP MELF;1NF,20%,25V,Y5S,TP,2012      | SME LOCAL |
| C835             | 2203-001524 | C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-         |           |
| C836             | 2203-001524 | C-CERAMIC,CHIP;47PF,5%,50V,NPO,TP,2012,-         |           |
| C802             | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                   | SME LOCAL |
| C804             | 2401-001904 | C-AL;10UF,20%,16V,-,TP,4X7MM,5                   | SME LOCAL |
| C806             | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL |
| C807             | 2203-001557 | C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,TP,2012,    | SME LOCAL |
| C808             | 2401-002197 | C-AL;4.7UF,20%,25V,GP,TP,4X7,5MM                 | SME LOCAL |
| C818             | 2401-001975 | C-AL;47UF,20%,16V,GP,TP,5X11MM,5                 | SME LOCAL |
| C819             | 2202-000780 | C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,TP,3.5 | SME LOCAL |
| C820             | 2401-001511 | C-AL;47UF,20%,16V,GP,-,6X7,5                     | SME LOCAL |
| C822             | 2401-001893 | C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5               | SME LOCAL |
| C824             | 2203-001696 | C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012     | SME LOCAL |
| C825             | 2203-001696 | C-CERAMIC,CHIP MELF;82PF,10%,50V,Y5P,TP,2012     | SME LOCAL |
| C829             | 2401-000918 | C-AL;22UF,20%,16V,GP,-,6.3X7,5                   | SME LOCAL |
| C831             | 2203-001615 | C-CERAMIC,CHIP MELF;270PF,10%,50V,Y5P,TP,2012,2M |           |
| C835             | 2203-001702 | C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-        | SME LOCAL |
| C836             | 2203-001702 | C-CERAMIC,CHIP;2.2NF,5%,50V,X7R,TP,2012,-        | SME LOCAL |
| D801             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| D802             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| D803             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| D804             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| D820             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| D822             | 0401-000101 | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |
| JC801            | 3710-000482 | CONNECTOR-SOCKET;21P,-,ANGLE,SN                  | SME LOCAL |
| L803             | 2701-000181 | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM                 | SME LOCAL |
| L804             | 2701-000181 | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM                 | SME LOCAL |
| L805             | 2701-000181 | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM                 | SME LOCAL |
| L806             | 2701-000181 | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM                 | SME LOCAL |
| L807             | AC27-92001M | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-            | SME LOCAL |
| L808             | AC27-92001M | INDUCTOR;70UH-M RT BFS3565R2F,-,-,-,-            | SME LOCAL |
| L815             | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL |
| L816             | AC27-92001B | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL |
| Q802             | 0501-000303 | TR-SMALL SIGNAL;KSA733-YPNP,250MW,TO-92,-,120    | SME LOCAL |
| Q803             | 0501-000398 | TR-SMALL SIGNAL;KSC945,NPN,250MW,TO-92,TP        | SME LOCAL |
| Q812             | 0504-000203 | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL |
| Q813             | 0504-000142 | TR-DIGITAL;KSR2001,PNP,300MW,4.7K-4.7K,TO        | SME LOCAL |

| Loc.No | Part No      | Desc and Spec                                    | Remark    | Loc.No | Part No       | Desc and Spec                                 | Remark    |
|--------|--------------|--------------------------------------------------|-----------|--------|---------------|-----------------------------------------------|-----------|
| R807   | 2007-001446  | R-CHIP,MELF;910OHM,5%,1/8W,DB,BK,2012            |           | R703   | 2004-000790   | R-METAL;330OHM,5%,1/4W,AA,TP (FRONT AV OPT.)  | SME LOCAL |
| R808   | 2007-001505  | R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R704   | 2001-000969   | R-CARBON;75OHM,5%,1/8W,AA,TP,1.8X3.2MM        | SME LOCAL |
| R809   | 2001-000995  | R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL | R705   | 2004-000292   | R-METAL;120HM,5%,1/4W,AA,TP,2.4X6.4MM         | SME LOCAL |
| R810   | 2001-000449  | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2M          | SME LOCAL | R706   | 2001-000273   | R-CARBON;100KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.) | SME LOCAL |
| R811   | 2007-001505  | R-CHIP,MELF;470OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R707   | 2001-000273   | R-CARBON;100KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.) | SME LOCAL |
| R812   | 2007-001460  | R-CHIP,MELF;750HM,5%,1/8W,DB,BK,2012             |           | R708   | 2001-000273   | R-CARBON;100KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.) | SME LOCAL |
| R813   | 2007-001460  | R-CHIP,MELF;750HM,5%,1/8W,DB,BK,2012             |           | R709   | 2001-000273   | R-CARBON;100KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.) | SME LOCAL |
| R816   | 2007-001557  | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R711   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.)  | SME LOCAL |
| R817   | 2007-001557  | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R712   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.)  | SME LOCAL |
| R822   | 2007-001557  | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R713   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.)  | SME LOCAL |
| R823   | 2007-001557  | R-CHIP,MELF;270OHM,5%,1/8W,DB,BK,2012            | SME LOCAL | R714   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP (SHUTTLE OPT.)  | SME LOCAL |
| R835   | 2004-001290  | R-METAL;820OHM,5%,1/4W,AA,TP,2.4X6.4MM           | SME LOCAL | R716   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| SW801  | 3408-000127  | SWITCH-SLIDE;12V,100MA,-,-                       | SME LOCAL | R717   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| 670    | DO NOT ORDER | ASSY-F/TIMER                                     | (S.N.A)   | R718   | 2001-000660   | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C701   | 2401-001893  | C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5               | SME LOCAL | R719   | 2001-000660   | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C702   | 2202-000797  | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | R720   | 2001-000325   | R-CARBON;120OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C703   | 2202-000796  | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-  |           | R721   | 61048-177-563 | R-CARBON;RD 1/8 563-J                         |           |
| C704   | 2401-001952  | C-AL;4.7UF,20%,50V,-,TP,6.3X7.5                  | SME LOCAL | R722   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C705   | 2401-001893  | C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5               | SME LOCAL | R726   | 2001-000780   | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C706   | 2202-000807  | C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X |           | R727   | 2001-000780   | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C707   | 2202-000243  | C-CERAMIC,MLC-AXIAL;33PF,5%,50V,SL,3.5X19,-,TP   |           | R728   | 2001-000429   | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM        | SME LOCAL |
| C708   | 2202-000279  | C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP   | SME LOCAL | R729   | 2001-000734   | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2M       | SME LOCAL |
| C709   | 2202-000279  | C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP   | SME LOCAL | R730   | 2001-000660   | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C710   | 2202-000279  | C-CERAMIC,MLC-AXIAL;47PF,5%,50V,SL,3.5X19,-,TP   | SME LOCAL | R731   | 2001-000660   | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C711   | 2202-000797  | C-CERAMIC,MLC-AXIAL;10NF,30%,16V,Y5P,TP,3.5X19,- | SME LOCAL | R732   | 2001-000633   | R-CARBON;30KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C712   | 2202-000796  | C-CERAMIC,MLC-AXIAL;1NF,10%,50V,Y5P,TP,3.5X19,-  |           | R733   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| C714   | 2401-001904  | C-AL;10UF,20%,16V,-,TP,4X7MM,5 (FRONT AV OPT.)   | SME LOCAL | R734   | 2001-000290   | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM       | SME LOCAL |
| CN701  | 3710-000545  | CONNECTOR-SOCKET;20P,1R,1.5MM,STRAIGHT,SN        | SME LOCAL | RM701  | AC59-62001G   | MODULE-REMOCON;TFMR5380,38KHZ,-,-,-,-         |           |
| D703   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW701  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D706   | 0401-000101  | DIODE-SWITCHING;1N4148,100V (FRONT AV OPT.)      | SME LOCAL | SW703  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D708   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW704  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D710   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW705  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D711   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW706  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D712   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW707  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D718   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW709  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D723   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW710  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D725   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW711  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D728   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW712  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D730   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW713  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50 (NO SHUTTLE OPT.) |           |
| D736   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW714  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50 (NO SHUTTLE OPT.) |           |
| D737   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | SW715  | 3404-001008   | SWITCH-TACT;12V,20MA,160+50,6X7.9X3.5MM,D     |           |
| D738   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | ZD701  | 62169-403-833 | DIODE ZENER;UZ 5.6BH                          |           |
| D739   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | ZD702  | 0403-000555   | DIODE-ZENER;MTZ30D,30V,29.02-30.51V,500MW,    |           |
| D741   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |        | AC59-10345A   | REMOCON-ASSY                                  |           |
| D742   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |        |               | SV-A40GK/SV-A80GK/SV-205G/SV-405G             |           |
| D743   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |        | AC59-10329N   | SV-A20GK/SV-A60GK/SV-200G/SV-400G             |           |
| D744   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL |        | 64043-0166-00 | DOOR-BATTERY;ABS94HB T2 D/GRY NR-3346         |           |
| D745   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | CT1    | 2401-001954   | C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5             | SME LOCAL |
| D746   | 0401-000101  | DIODE-SWITCHING;1N4148,100V,200MA,500MW,4NS      | SME LOCAL | CT2    | 2203-000239   | C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,2012,-     | SME LOCAL |
| DT701  | AC07-20050J  | VF-DISPLAY;SVV-8MS11,15SEG,101.5X21.5,-          |           | CT3    | 2203-000239   | C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,2012,-     | SME LOCAL |
| IC701  | 1003-001039  | IC-VFD;UPD16311GC-AB6,QFP,52P,-,-,-40            |           | ICT1   | AC09-12014C   | IC-MCU;KS51810-76,QFP,V-PAL                   | SME LOCAL |
| JK702  | AC37-22001T  | JACK-PIN;DSPS-8805-03W,PI4,3P (FRONT AV OPT.)    | SME LOCAL | LDT1   | A4150-0168    | LED-INFRARED;SI5312-H NTR 940NM/1.4V          | SME LOCAL |
| JK703  | 3722-000433  | JACK-PIN;1P/C,PI3.3,SN,YEL,- (FRONT AV OPT.)     | SME LOCAL | QT1    | 0501-000534   | TR-SMALL SIGNAL;2SC2412K,NPN,200MW,SOT-23,TP  | SME LOCAL |
| JS701  | 3406-001015  | SWITCH-ROTARY;5V,10MA,DP5T (SHUTTLO OPT.)        |           | RT1    | 2007-000483   | R-CHIP;10HM,5%,1/10W,DA,TP,2012               | SME LOCAL |
| L701   | AC27-92001B  | COIL-PEAKING AXIAL;BAL04ST101K,-,-,-,-           | SME LOCAL | XT01   | 64539-102-311 | CERAMIC RESONATOR;CSB455EBL/KBR455BKTL        |           |
| L703   | 2701-000181  | INDUCTOR-AXIAL;33UH,5%,2.4X3.4MM                 | SME LOCAL |        |               |                                               |           |
| LD701  | 0601-000497  | LED;ROUND,GRN,3MM,565NM                          |           |        |               |                                               |           |
| Q701   | 0504-000203  | TR-DIGITAL;KSR1004,NPN,300MW,47K-47K,TO-9        | SME LOCAL |        |               |                                               |           |
| R701   | 2004-000292  | R-METAL;120HM,5%,1/4W,AA,TP,2.4X6.4MM            | SME LOCAL |        |               |                                               |           |
| R702   | 2001-000290  | R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM          | SME LOCAL |        |               |                                               |           |

## MEMO

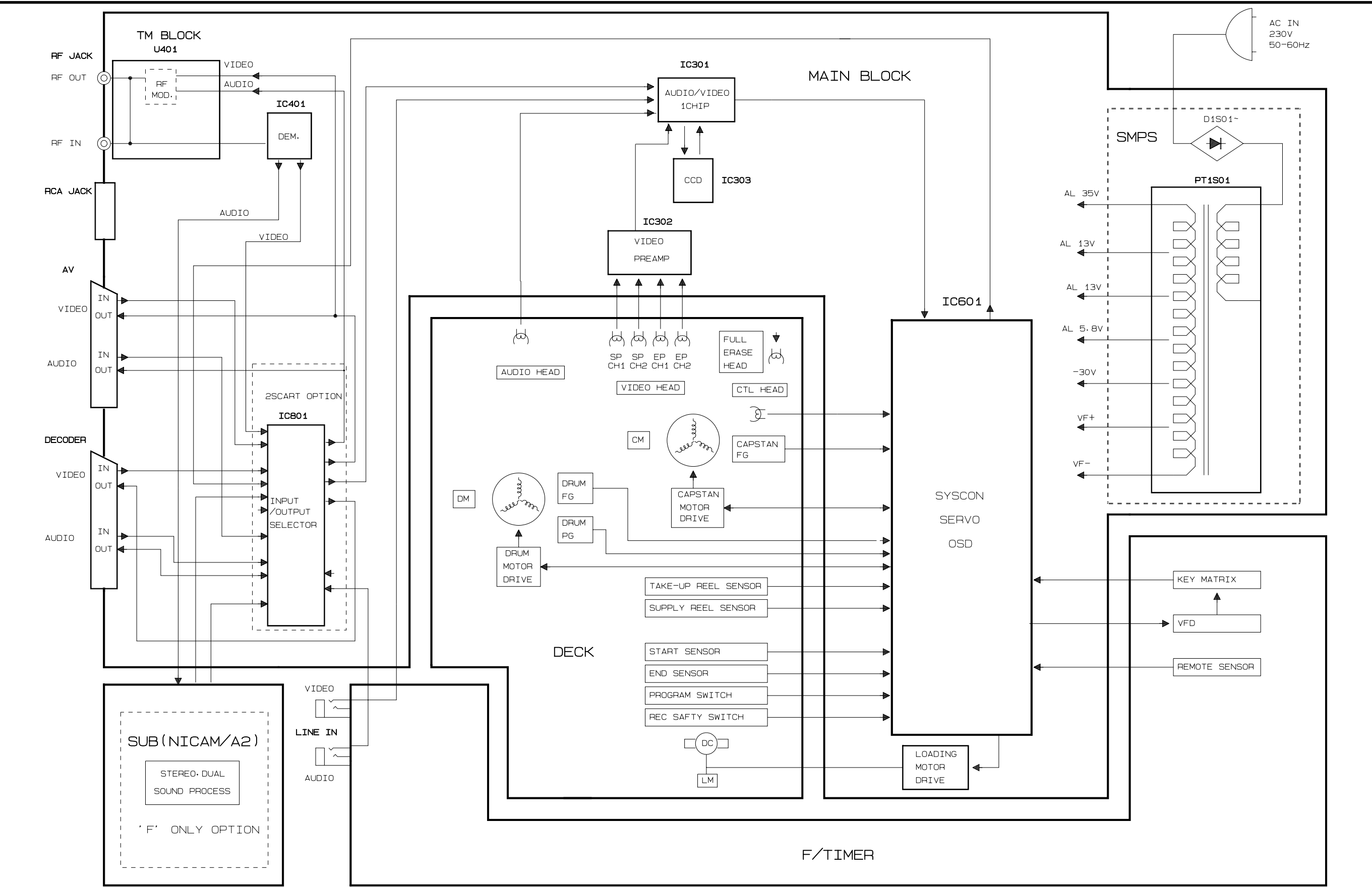
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# 8. Block Diagrams

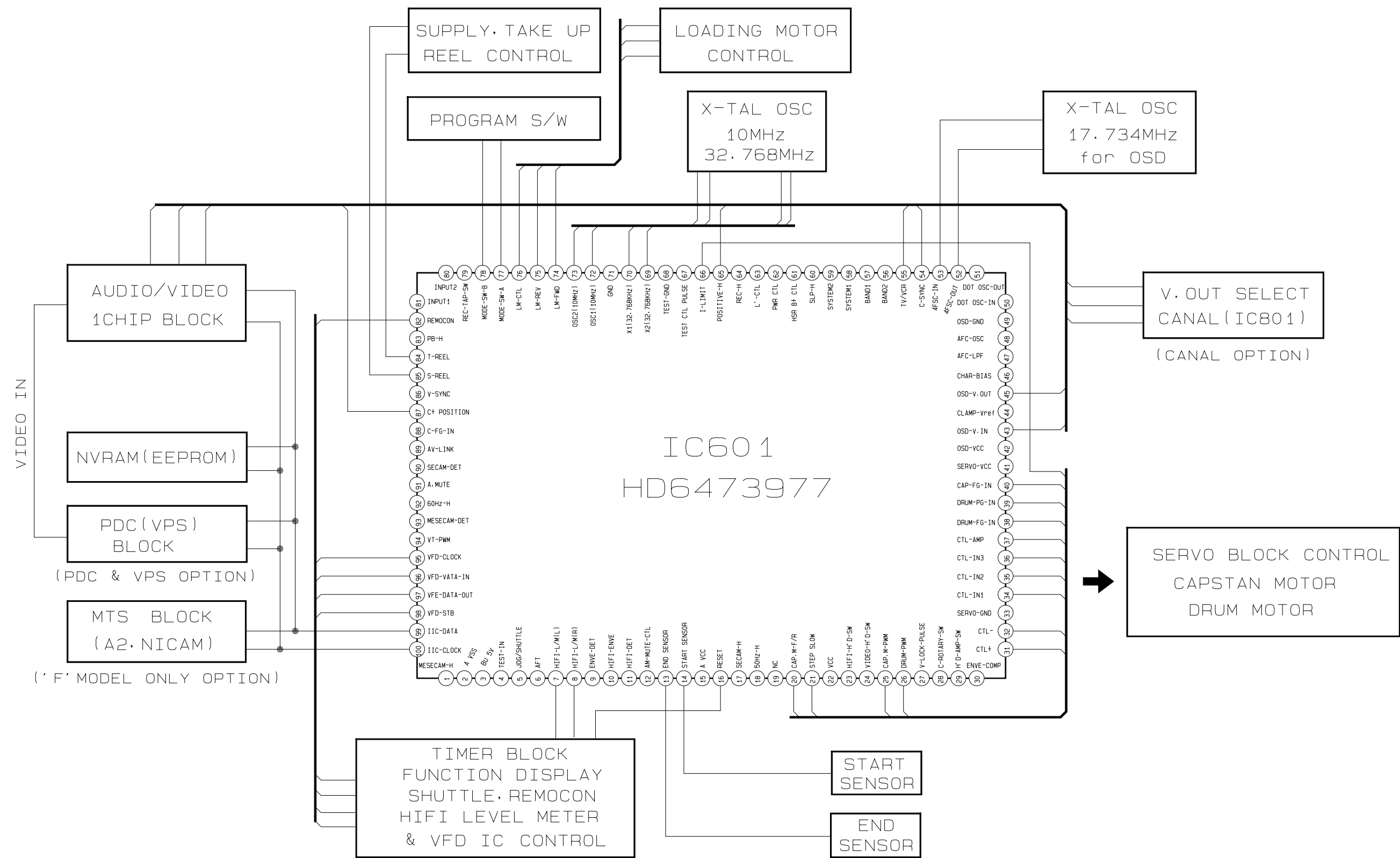
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|                                     | Page |
|-------------------------------------|------|
| 8-1 Overall Block Diagram - - - - - | 8-2  |
| 8-2 System Control - - - - -        | 8-3  |
| 8-3 Video - - - - -                 | 8-4  |

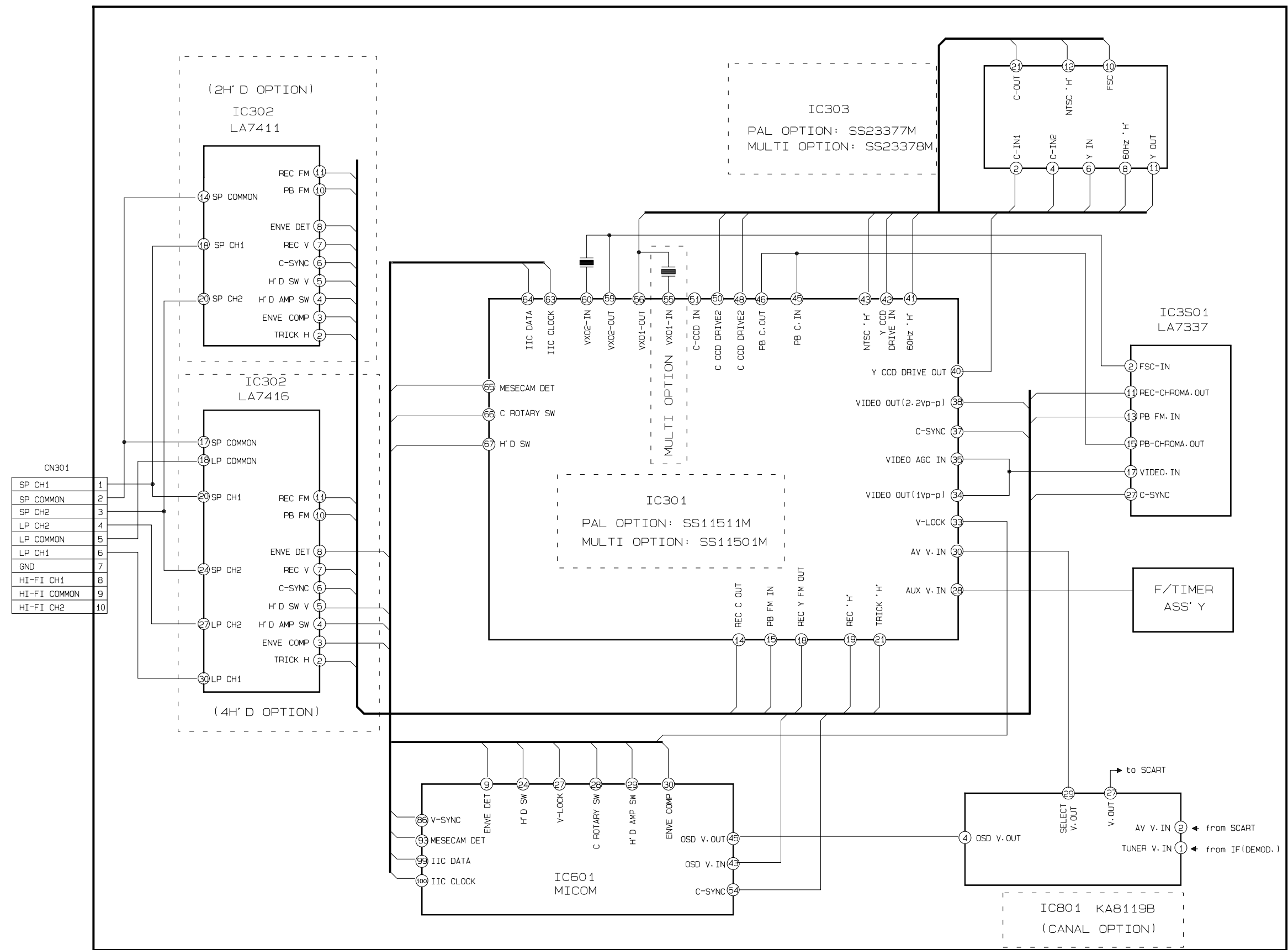
8-1 Overall Block Diagram



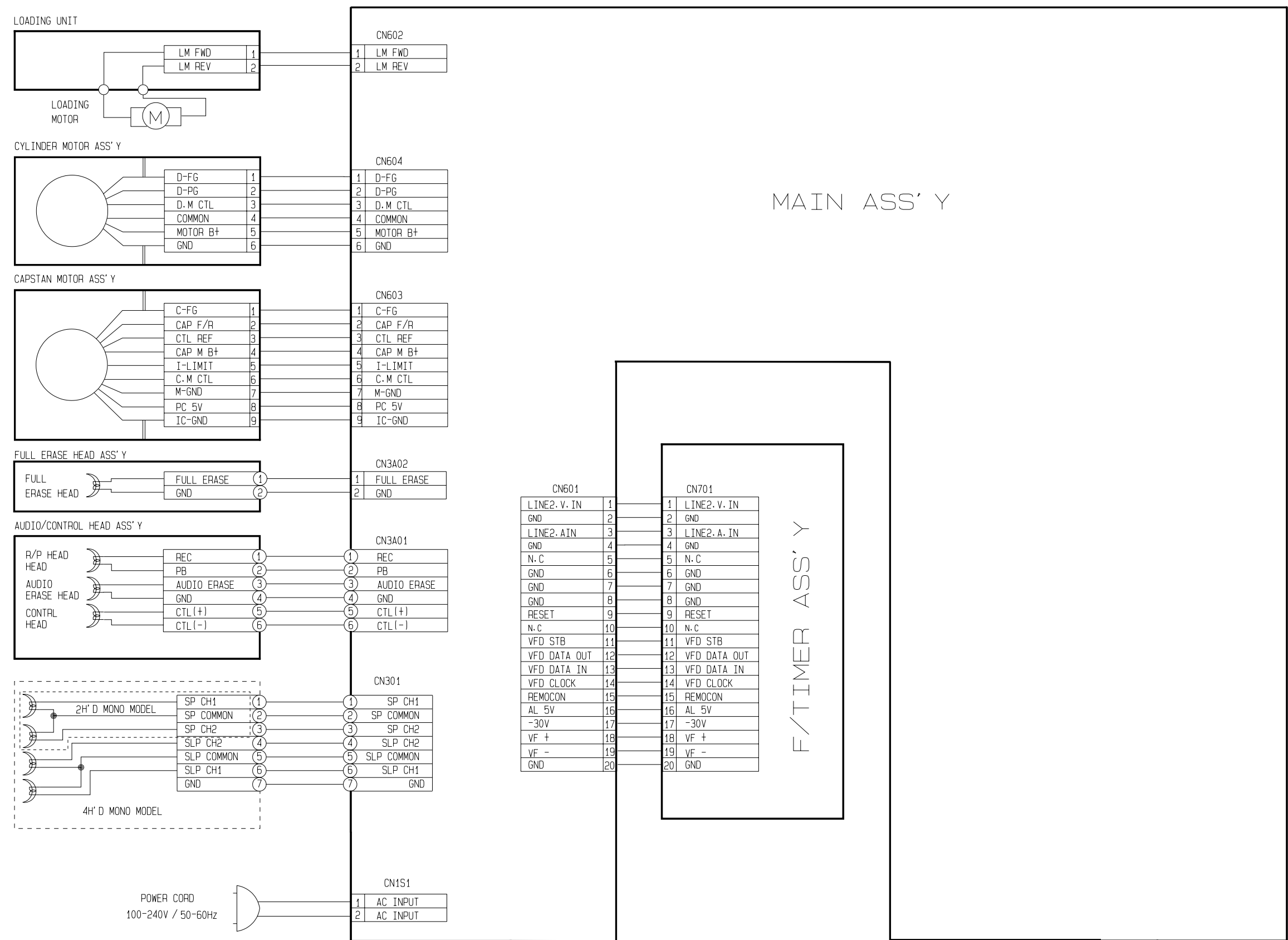
8-2 System Control



8-3 Video



# 10. Wiring Diagram



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# 11. Schematic Diagrams

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|                                                               | Page  |
|---------------------------------------------------------------|-------|
| ◆ Block Identification of Main PCB .....                      | 11-2  |
| 11-1 S.M.P.S/Power .....                                      | 11-3  |
| 11-2 System Control/Servo .....                               | 11-4  |
| 11-3 Audio/Video (SV-A20GK/SV-A40GK/SV-200G/SV-205G) .....    | 11-6  |
| 11-4 Audio/Video (SV-A60GK/SV-A80GK/SV-400G/SV-405G) .....    | 11-8  |
| 11-5 IF .....                                                 | 11-10 |
| 11-6 I/O .....                                                | 11-12 |
| 11-7 VPS .....                                                | 11-13 |
| 11-8 Function-Timer (SV-A20GK/SV-A60GK/SV-200G/SV-400G) ..... | 11-14 |
| 11-9 Function-Timer (SV-A40GK/SV-A80GK/SV-205G/SV-405G) ..... | 11-15 |
| 11-10 Remote-Control .....                                    | 11-16 |

**Note**

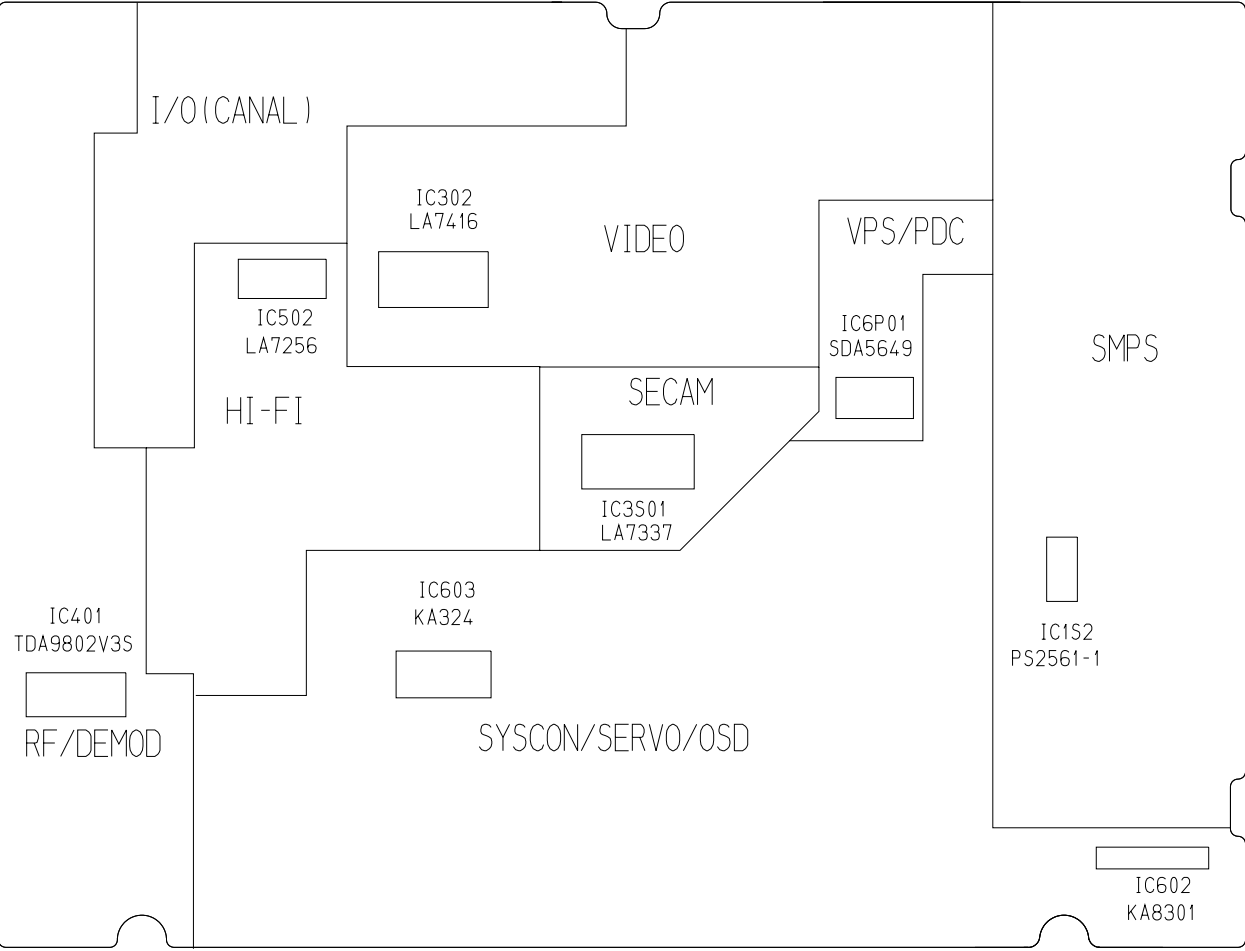
For schematic Diagram  
- Resistors are in ohms, 1/8W unless otherwise noted.  
- Circled numbers refer to waveforms.

**Special note :**  
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

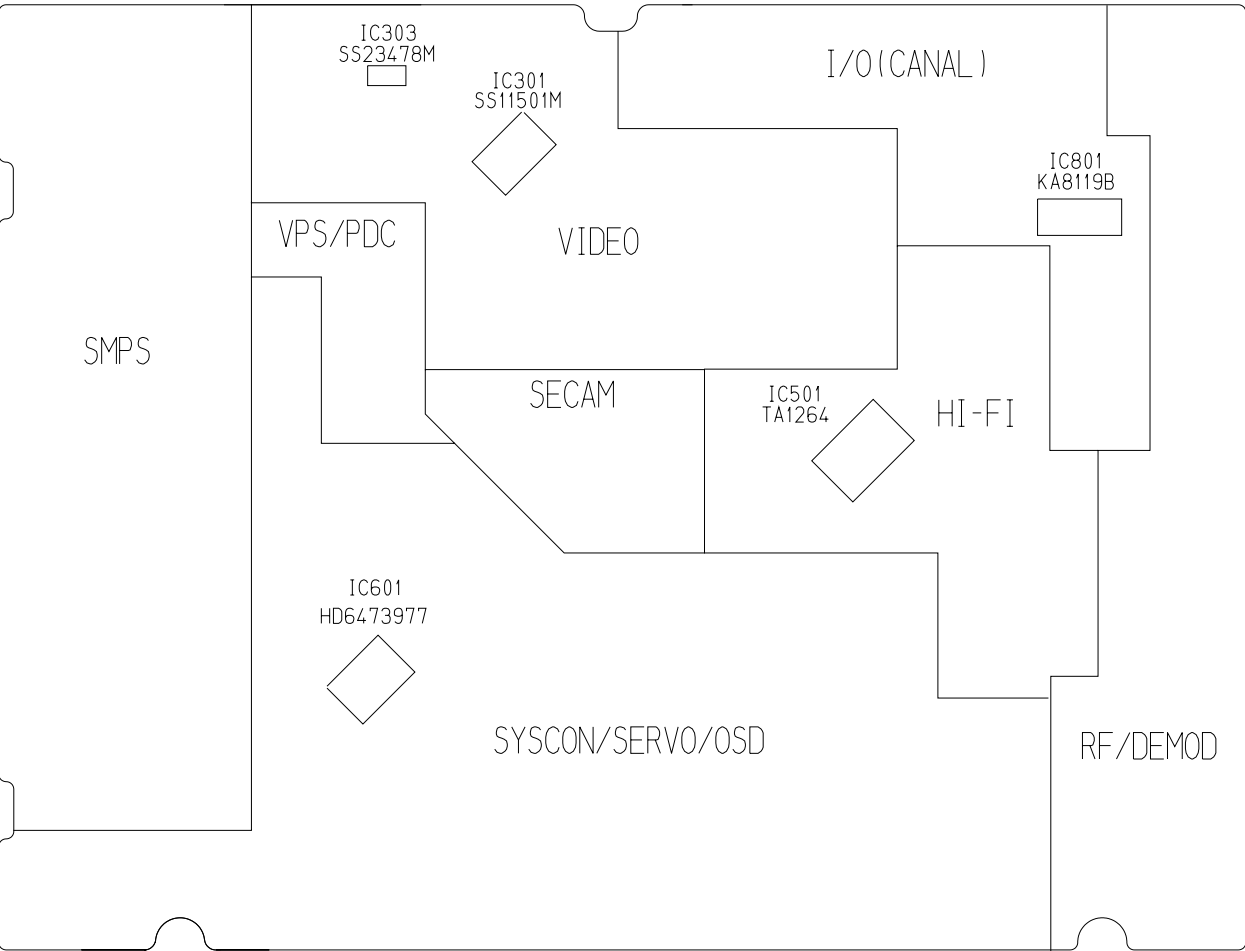
**Note :**  
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

**Important safety notices :**  
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ **Block Identification of Main PCB**

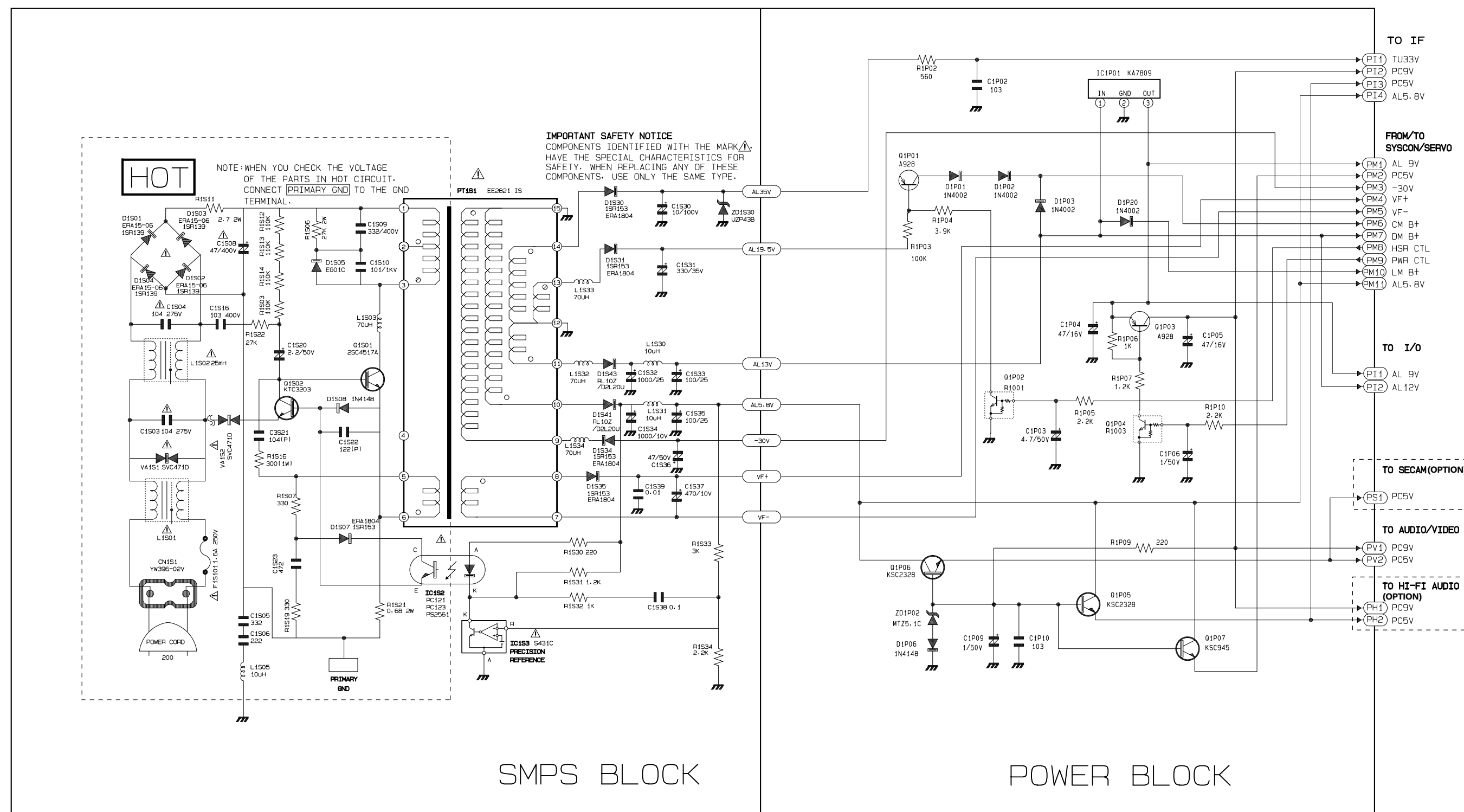


(Component Side)

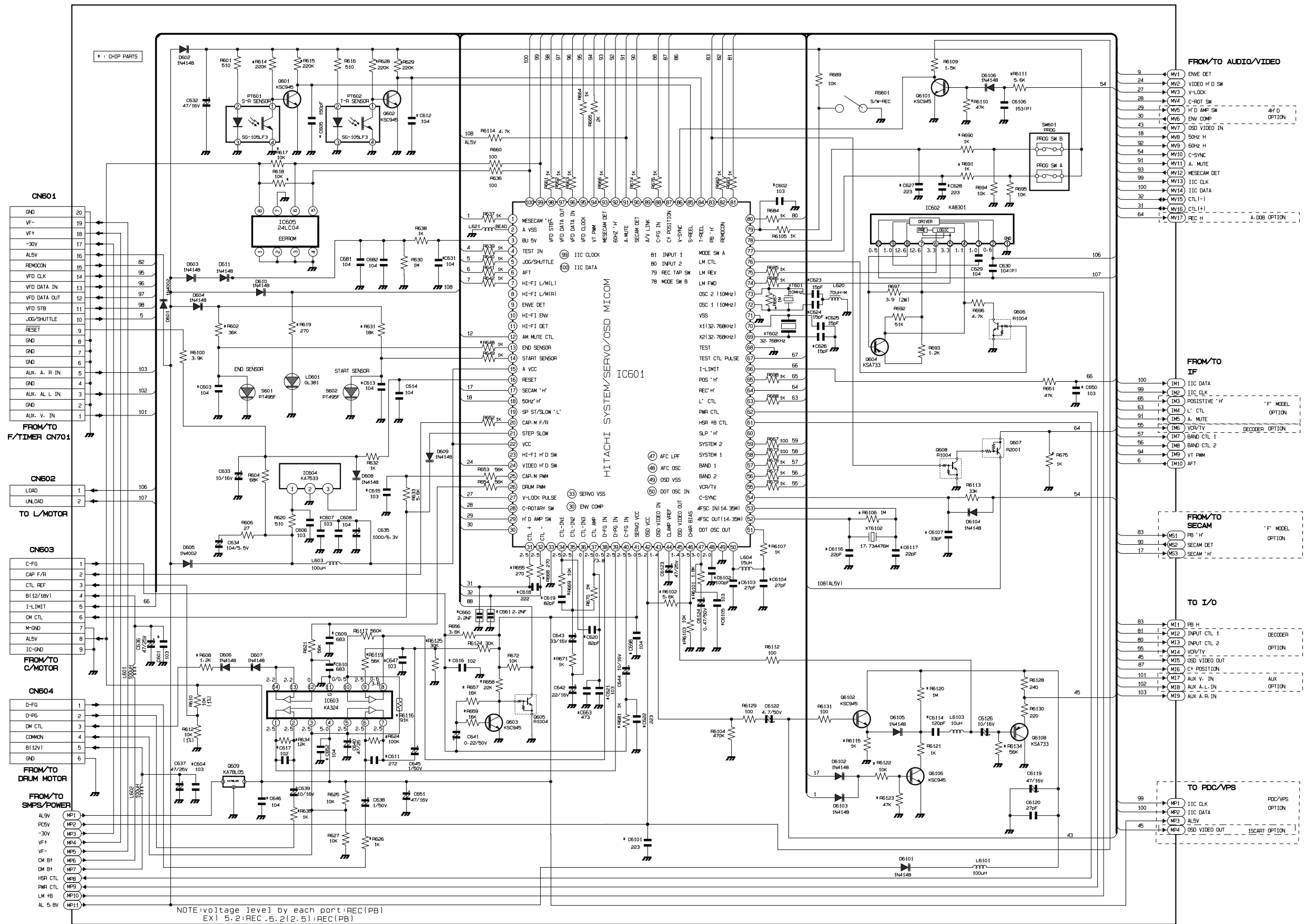


(Conductor Side)

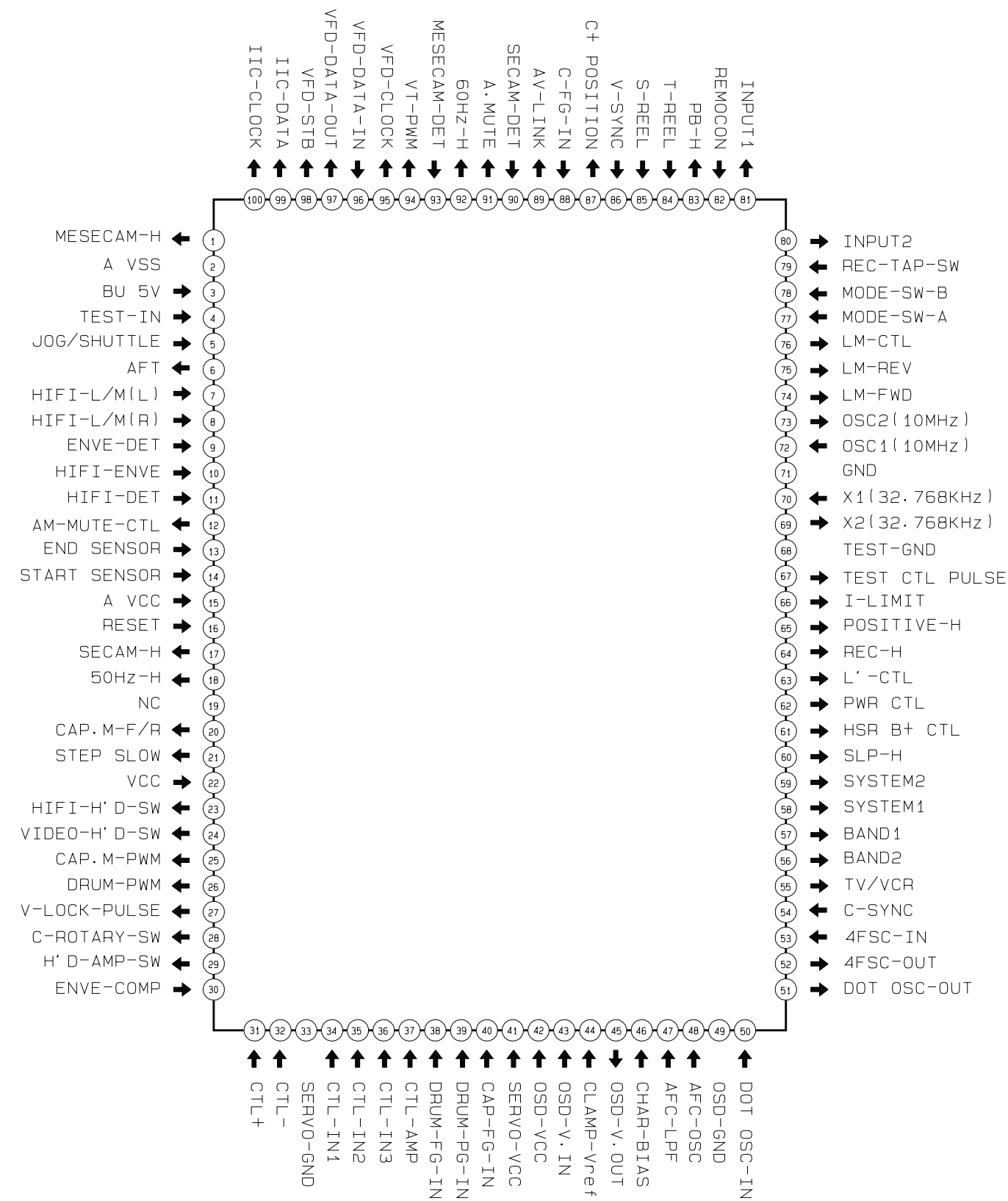
## 11-1 S.M.P.S/POWER



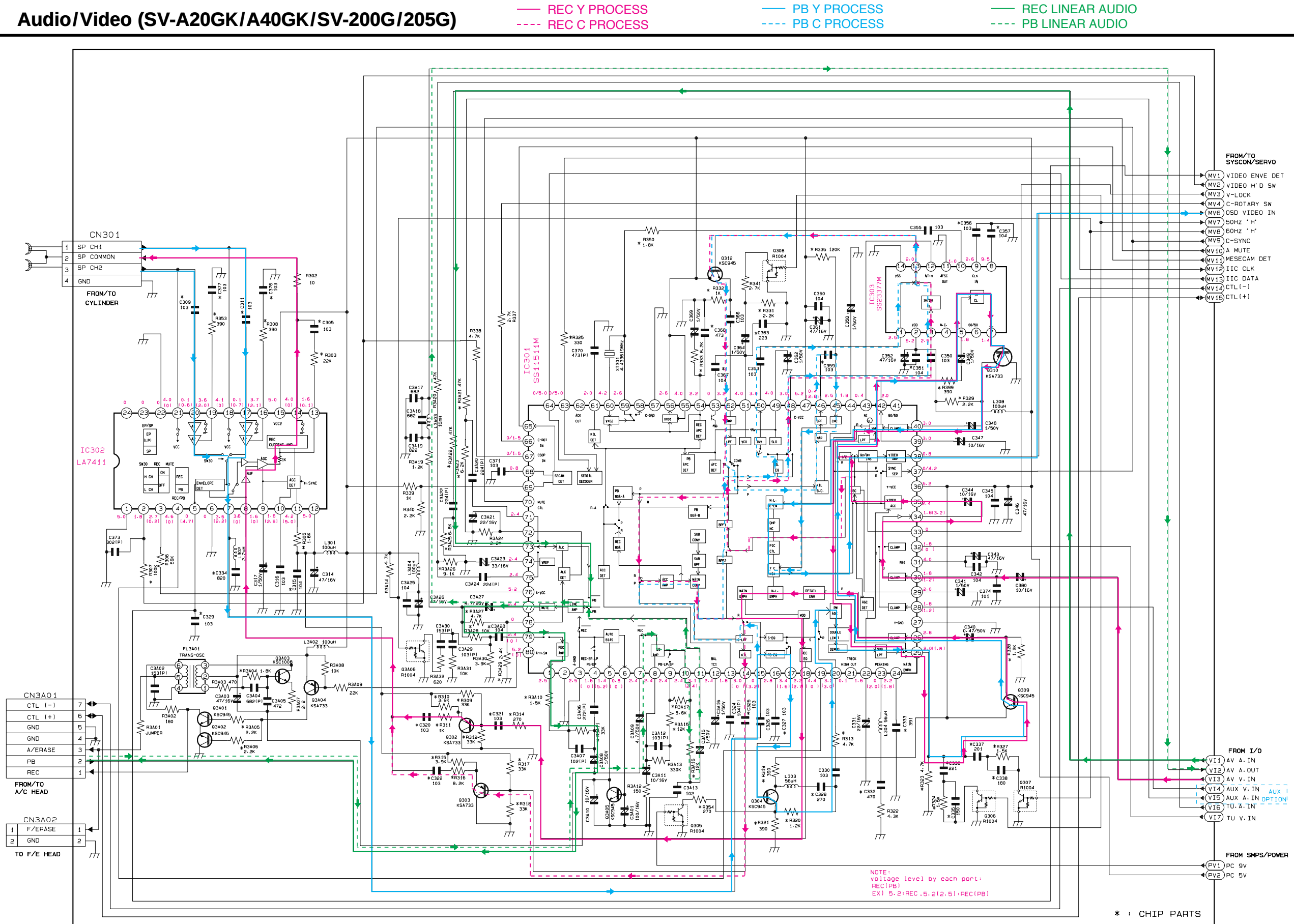
# 11-2 System Control/Servo

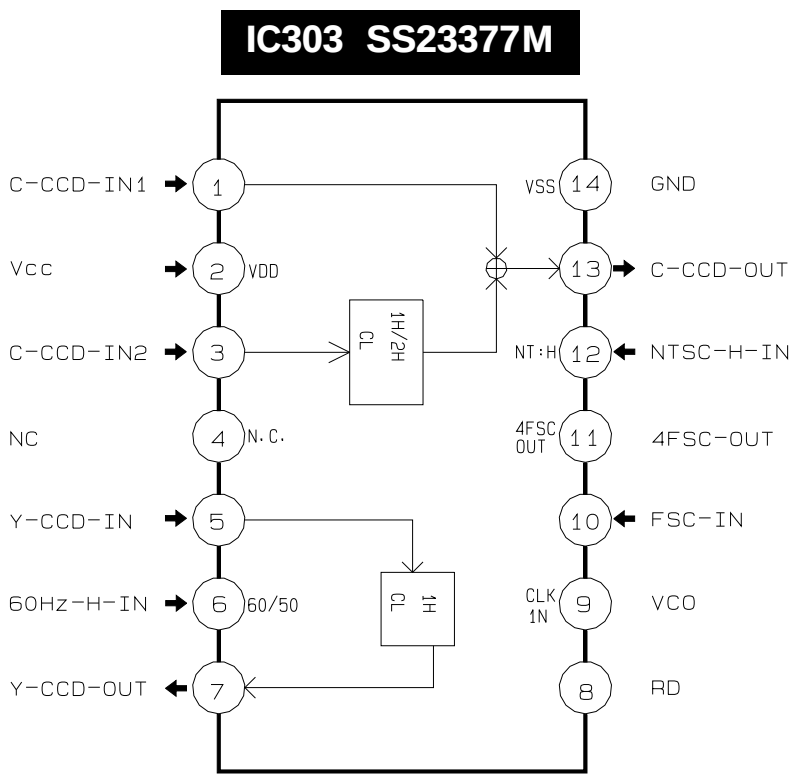
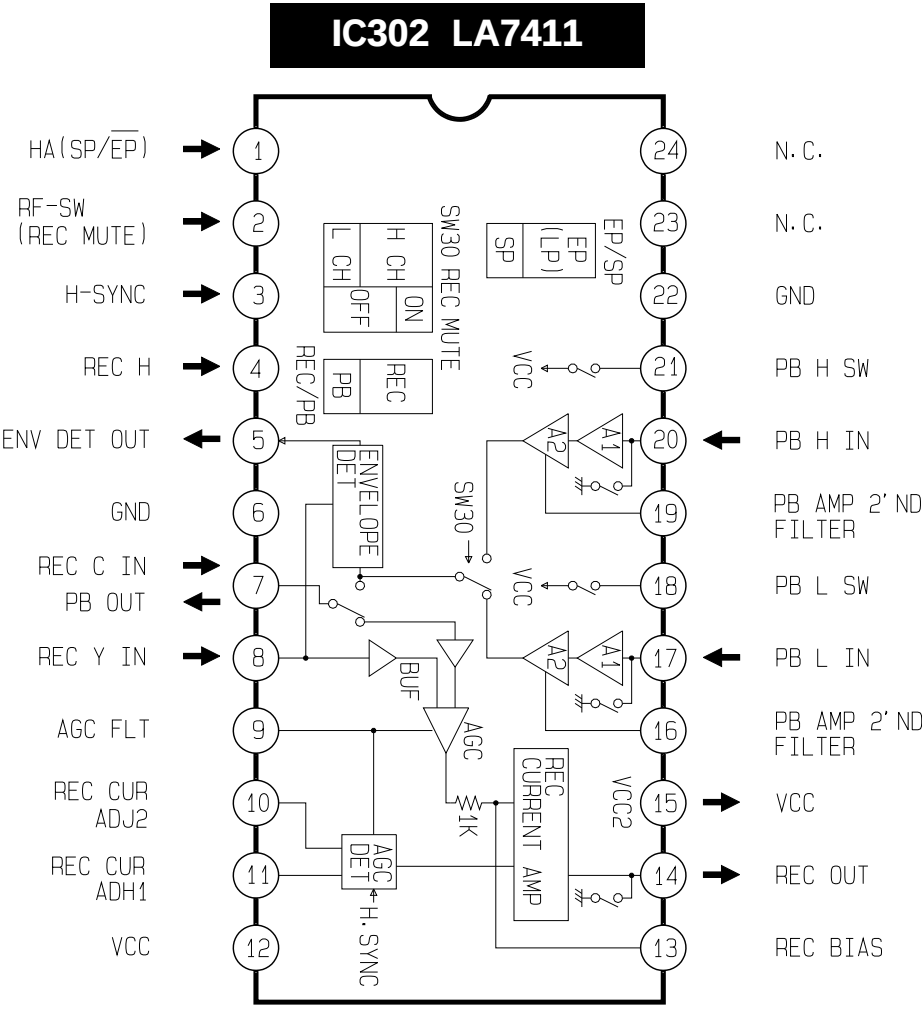
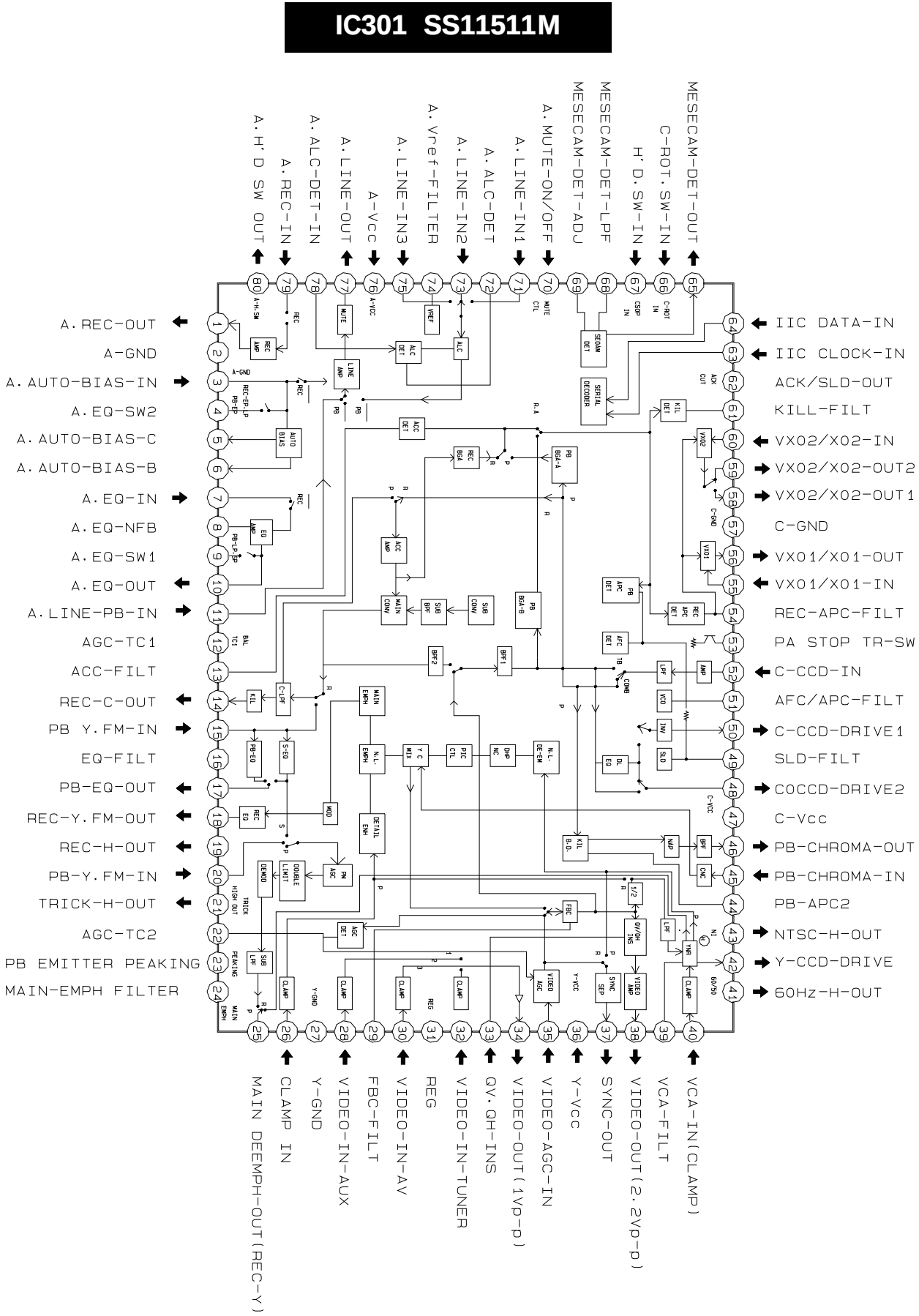


IC601 HD6433977-RA10F



11-3 Audio/Video (SV-A20GK/A40GK/SV-200G/205G)

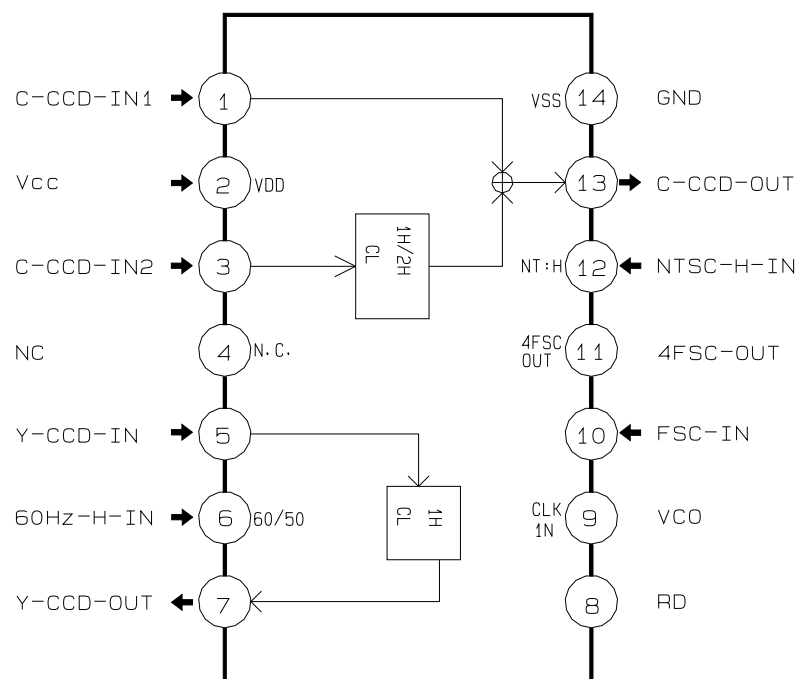




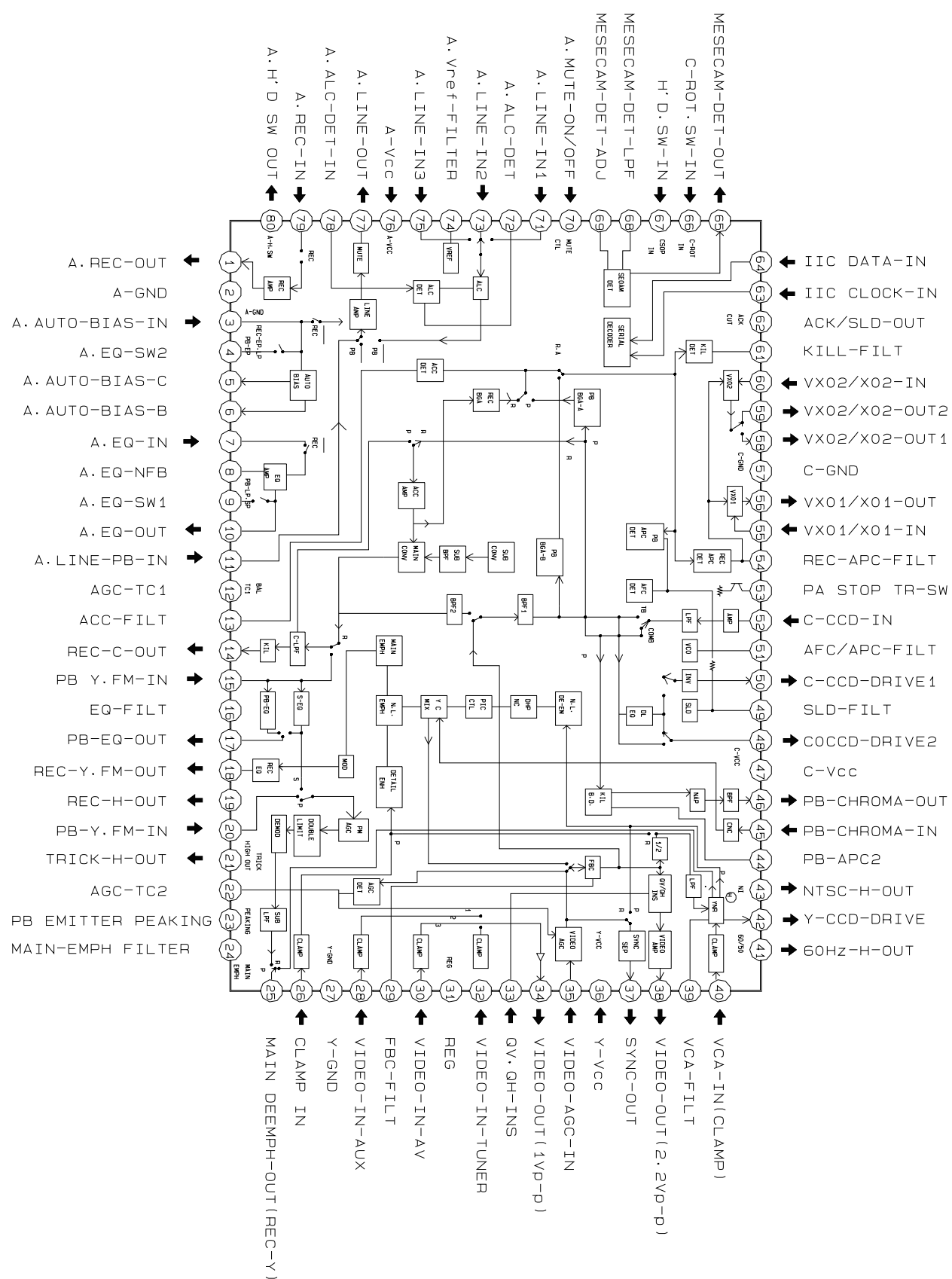
— PB Y PROCESS  
--- PB C PROCESS

— REC LINEAR AUDIO  
---- PB LINEAR AUDIO

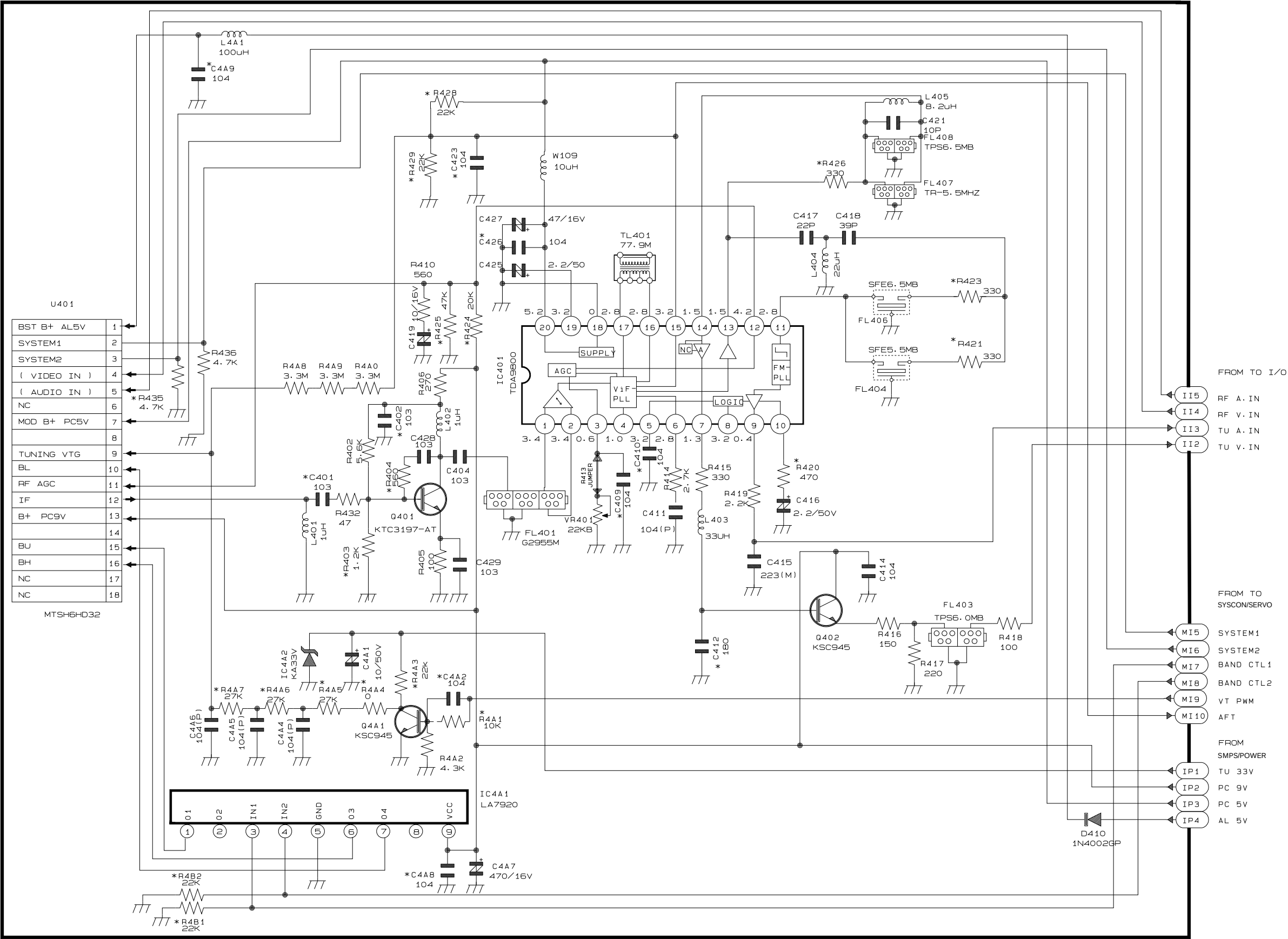


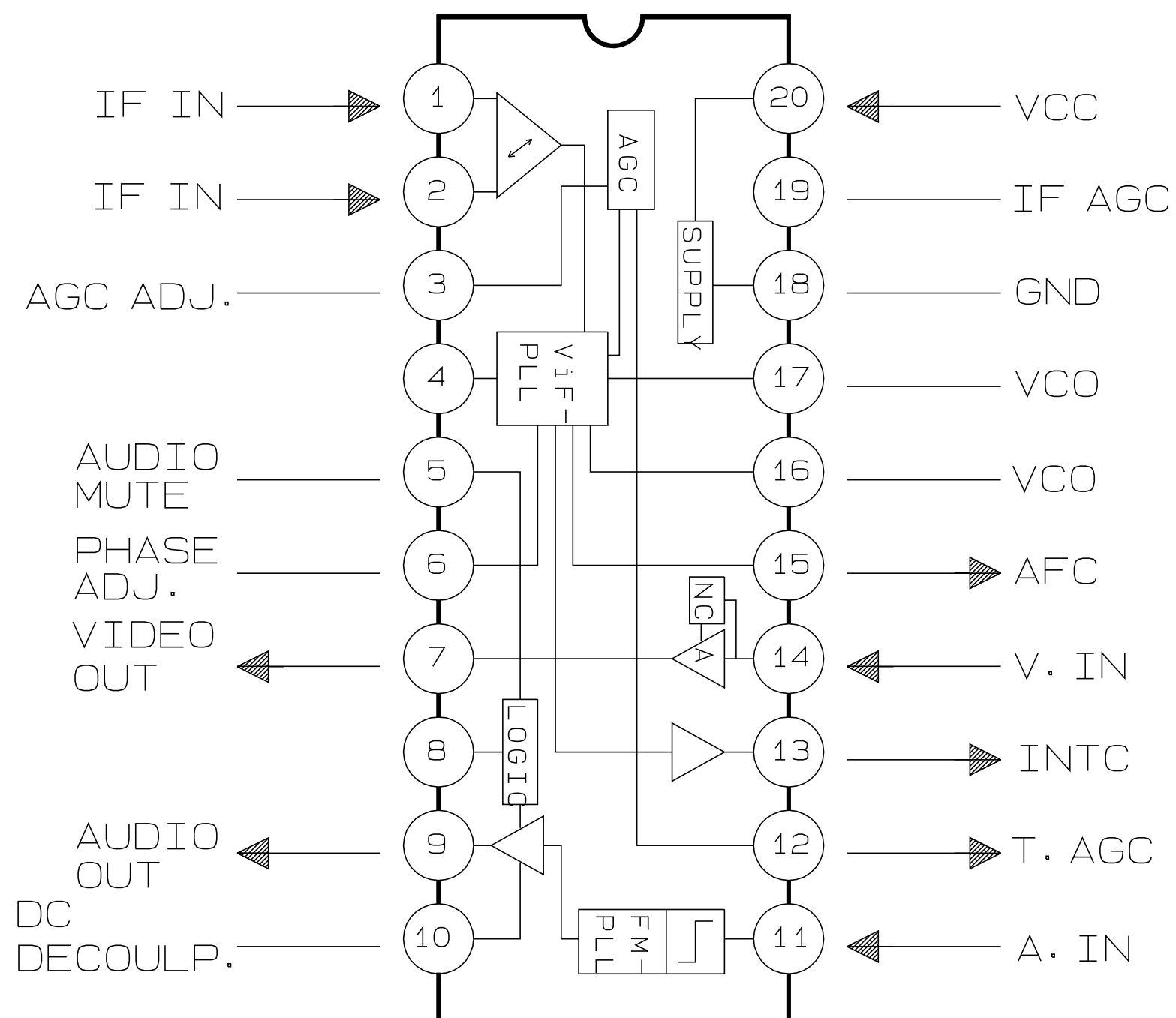


**IC301 SS11511M**

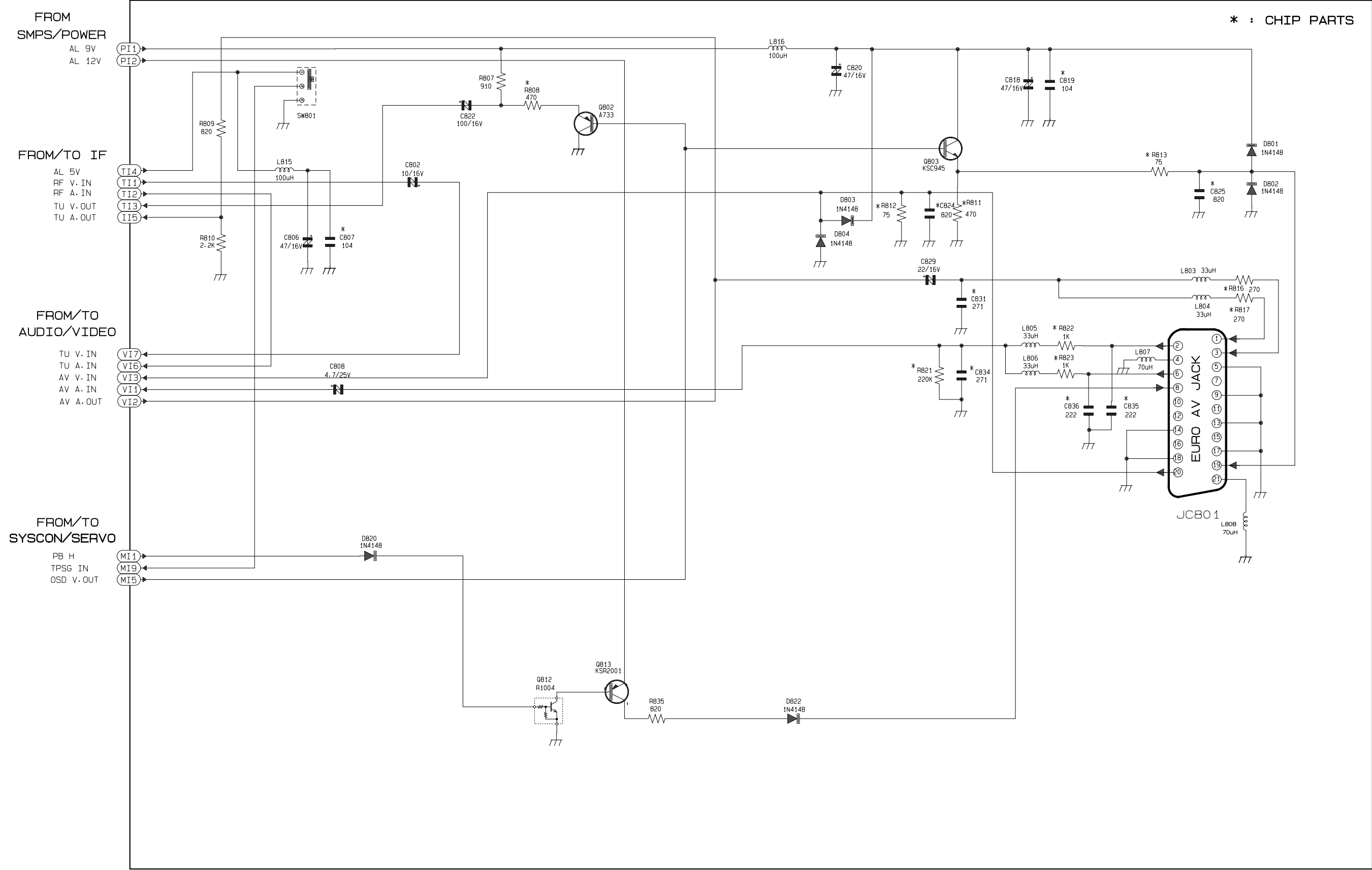


11-5 IF

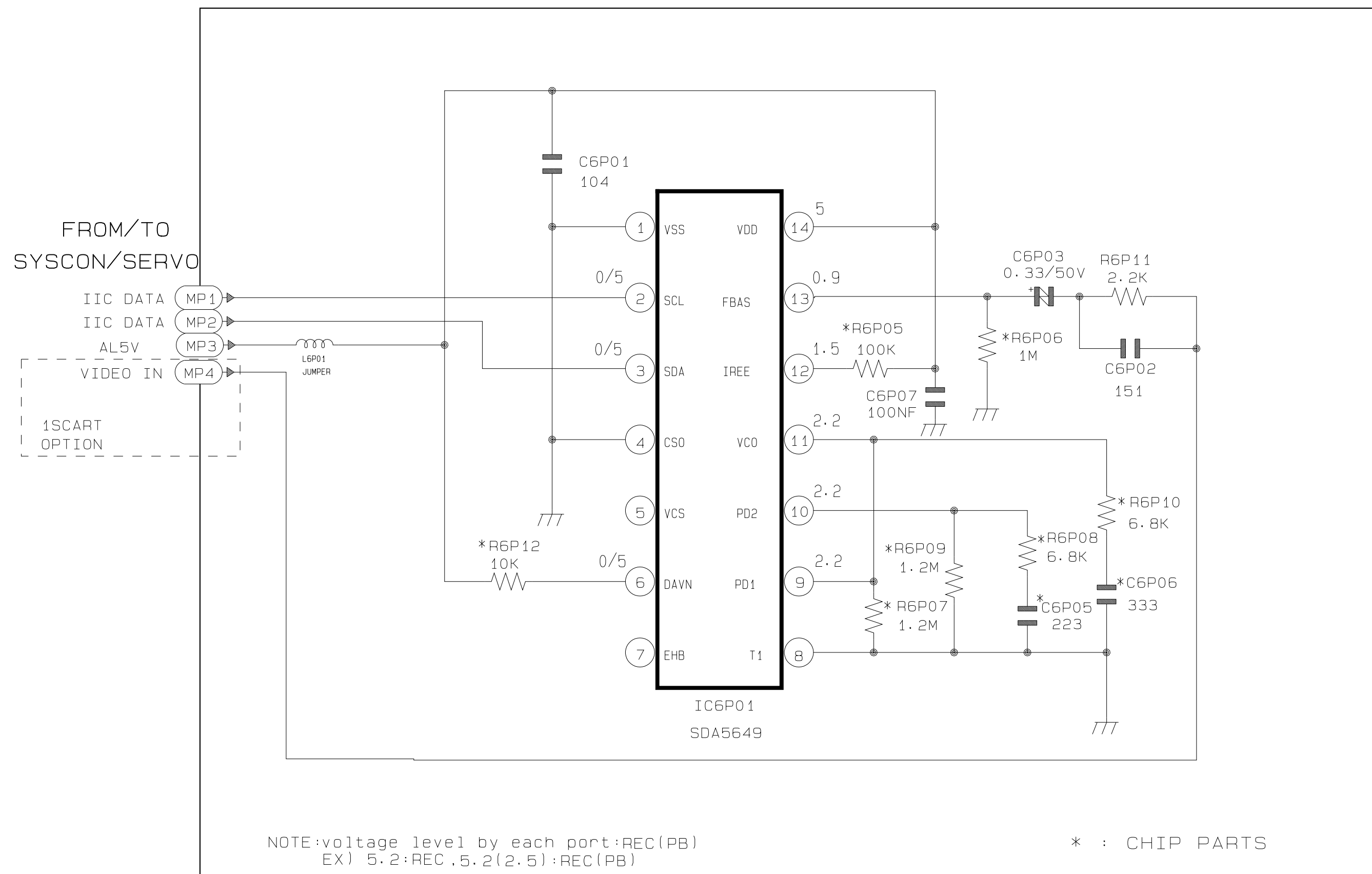


**IC401 TDA9800**

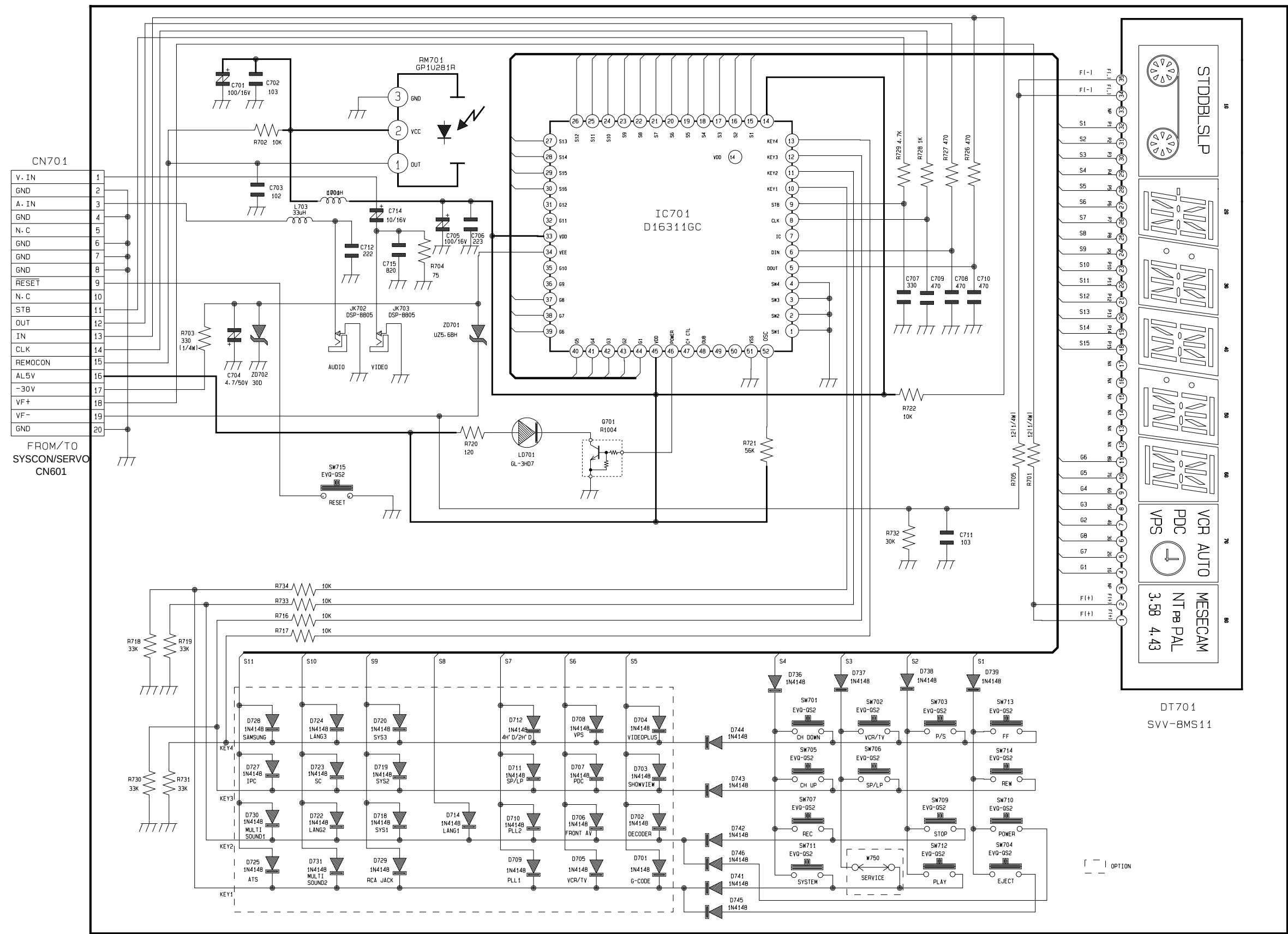
11-6 I/O



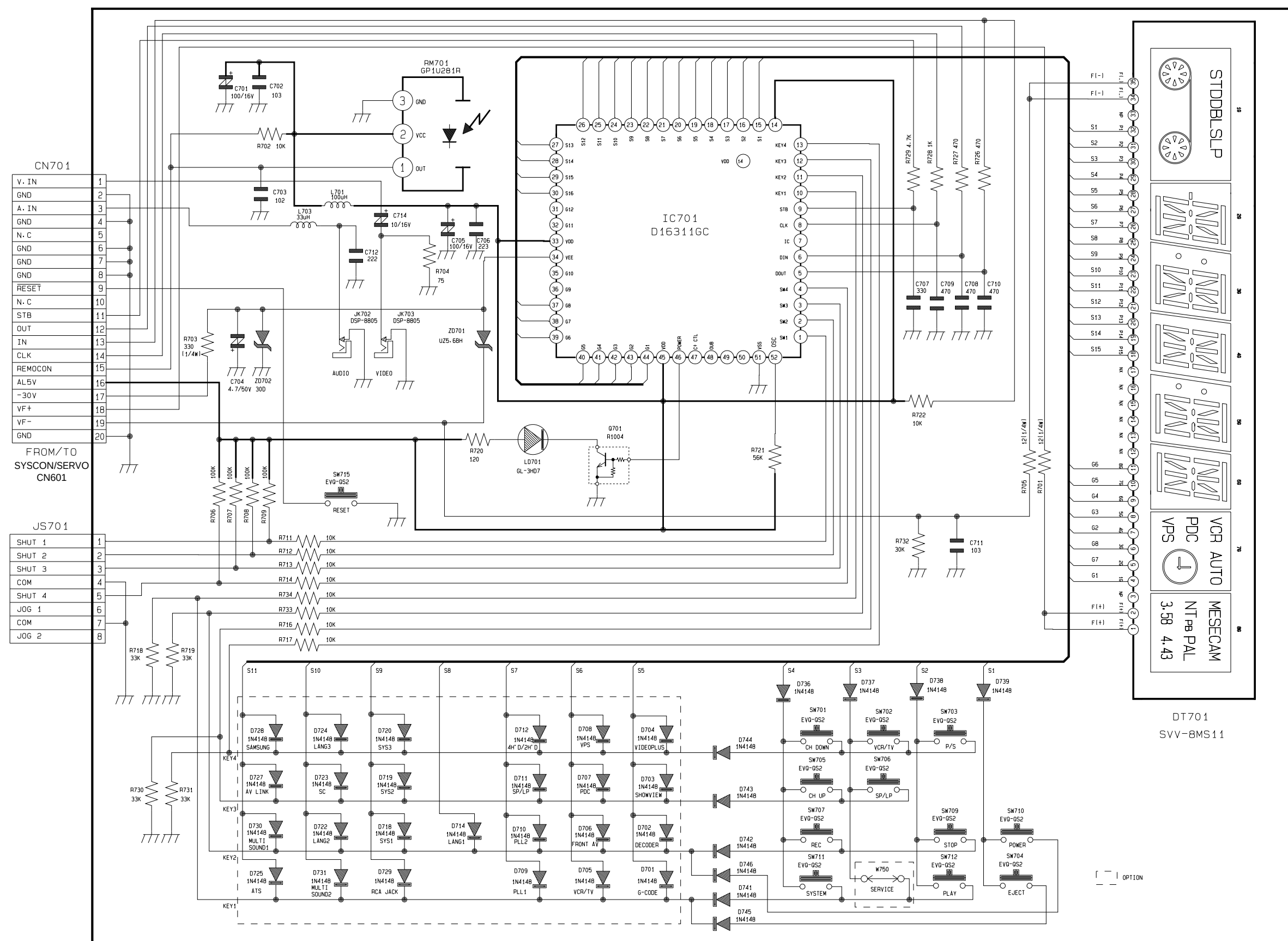
## 11-7 VPS



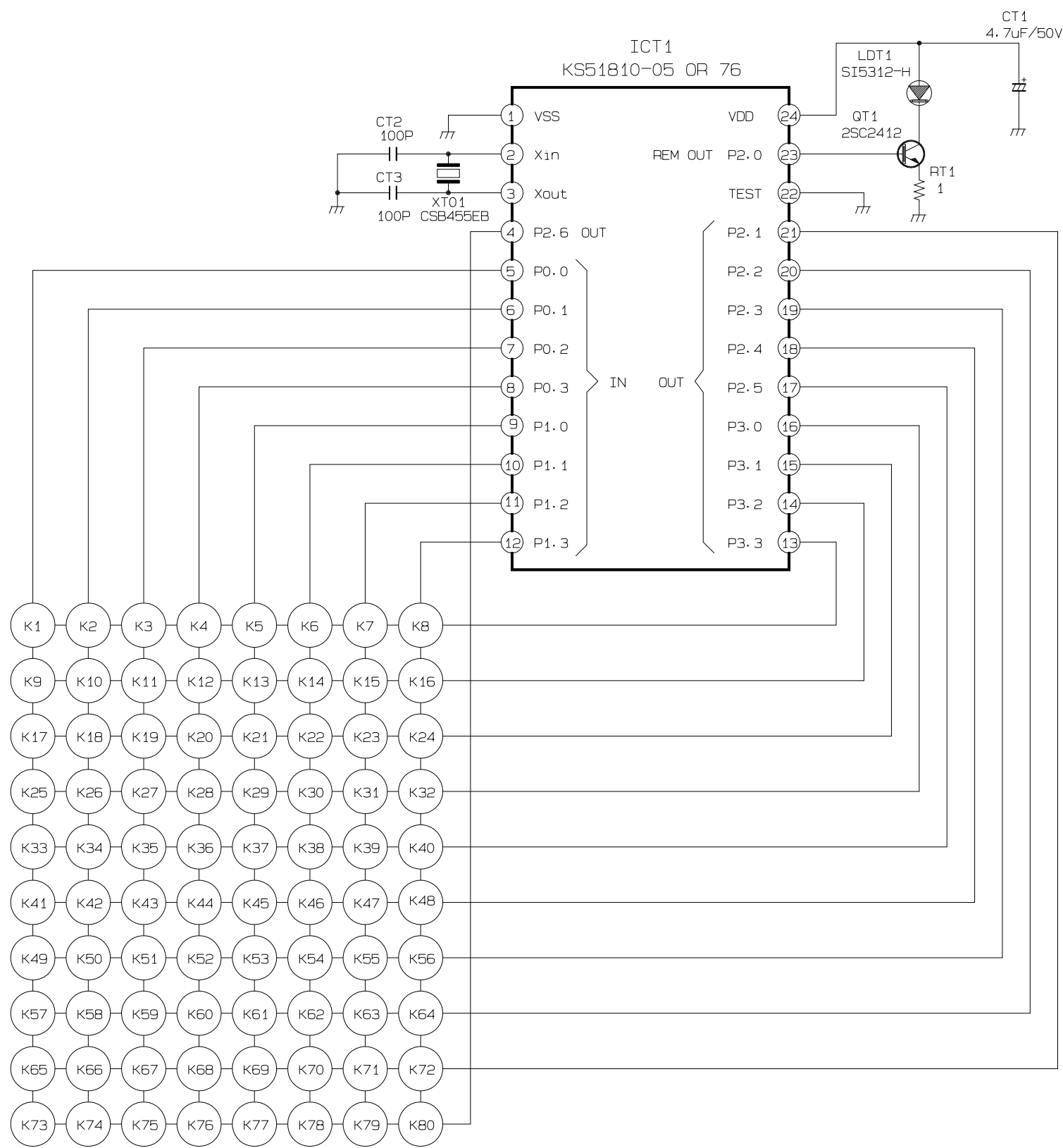
11-8 Function-Timer (SV-A20GK/SV-A60GK/SV-200G/SV-600G)



# 11-9 Function-Timer (SV-A40GK/SV-A80GK/SV-205G/SV-405G)



11-11 Remote-Control



| FUNCTION KEY |               |     |             |
|--------------|---------------|-----|-------------|
| K1           | -             | K41 | REW         |
| K2           | TV/VCR        | K42 | PLAY        |
| K3           | POWER         | K43 | F.F         |
| K4           | -             | K44 | INDEX       |
| K5           | -             | K45 | -           |
| K6           | -             | K46 | OK          |
| K7           | TEST          | K47 | -           |
| K8           | INDEX         | K48 | -           |
| K9           | CH 1          | K49 | -           |
| K10          | CH 2          | K50 | CLEAR/RESET |
| K11          | CH 3          | K51 | DISPLAY     |
| K12          | -             | K52 | MENU        |
| K13          | TRACKING UP   | K53 | SYSTEM      |
| K14          | TRACKING DOWN | K54 | -           |
| K15          | A.DUB         | K55 | -           |
| K16          | -             | K56 | -           |
| K17          | CH 4          | K57 | EJECT       |
| K18          | CH 5          | K58 | D.ATR       |
| K19          | CH 6          | K59 | OUTPUT SEL. |
| K20          | -             | K60 | -           |
| K21          | VCR+          | K61 | <           |
| K22          | SEARCH        | K62 | AFT         |
| K23          | -             | K63 | PICTURE     |
| K24          | CLOCK/COUNTER | K64 | -           |
| K25          | CH 7          | K65 | INPUT SEL.  |
| K26          | CH 8          | K66 | SHIFT       |
| K27          | CH 9          | K67 | -           |
| K28          | -             | K68 | -           |
| K29          | -             | K69 | ▷           |
| K30          | -             | K70 | -           |
| K31          | -             | K71 | SHUTTLE-    |
| K32          | -             | K72 | SHUTTLE+    |
| K33          | REC/OTR       | K73 | CH-DOWN     |
| K34          | STOP          | K74 | CH 0        |
| K35          | P/STILL       | K75 | CH-UP       |
| K36          | SLOW-DOWN     | K76 | SLOW+       |
| K37          | -             | K77 | VPS/PDC     |
| K38          | ▽             | K78 | -           |
| K39          | △             | K79 | SP/LP       |
| K40          | -             | K80 | G-PROGRAM   |